

ASTROGRAPHIC CATALOGUE
1900·0.

HYDERABAD SECTION
DEC. -16° to -21° .

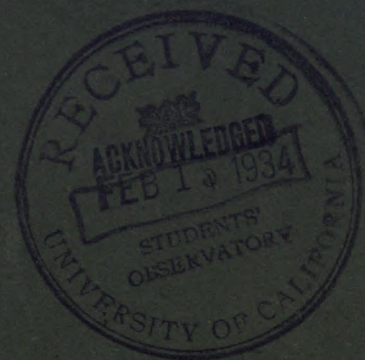
UNIV. OF
CALIFORNIA

FROM PHOTOGRAPHS TAKEN AND MEASURED AT THE NIZAMIAH
OBSERVATORY, HYDERABAD.

UNDER THE DIRECTION OF
R. J. POCOCK, B.A., B.Sc., F.R.A.S.

VOL. II.

MEASURES OF RECTANGULAR
CO-ORDINATES AND DIAMETERS
OF 61378 STAR-IMAGES
ON PLATES WITH CENTRES IN
DEC. -18°



EDINBURGH:
PRINTED FOR H.E.H. THE NIZAM'S GOVERNMENT
By NEILL & CO., LIMITED, 212 Causewayside.
1918.

Price Rs. 12 or 16s. Net.

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TO THE
ASTRONOMICAL

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NOTE.

No second proofs were submitted by the printers, the first proofs containing comparatively few corrections. While the printing was in progress an exhaustive examination of all discordant residuals from the reference stars was made, in the course of which it was found advisable to re-solve a few of the plates, and a good many measures were found to be faulty, usually on the earlier plates, the measures of which (particularly of the bright stars near the edges which give a large image) are not as good as those of later plates owing to the inexperience of the measurers. All cases where it was found possible to materially improve the constants or measures are given in the following list of errata, as also all other errors found when comparing the catalogue of standard co-ordinates with the general body of the catalogue, or other errors found incidentally.

Experience has shown that bad measures are almost all confined to the earlier plates, particularly to some in which the guiding is not quite perfect. It is also believed that a much smaller proportion of errors would be found among the faint stars than among the bright.

Nearly all the stars badly measured are close to the edges of the plate, and it will be seen that there is a marked tendency to bisect the images of the stars too far from the plate centre. Previous to undertaking this checking it had been suspected that such a tendency existed in the case of measures of bright stars on early plates.

ERRATA.

VOL. II. ZONE -18° .

PAGE	PAGE
13, 3036*, <i>for</i> 1·894 <i>read</i> 1·897.	19, 5351*, <i>for</i> 1·246 <i>read</i> 1·243.
13, Plate 859, R.A. 1 ^h 52 ^m .	19, 5361*, <i>for</i> 1·714 <i>read</i> 1·710.
A B C	19, 5366*, <i>for</i> 25·186 <i>read</i> 25·190.
-·02578 -·00030 +·2269	20, 5429*, <i>for</i> 4·206 <i>read</i> 4·203.
D E F	20, 5566*, <i>for</i> 2·715 <i>read</i> 2·712.
+·00075 -·02597 -·3043	21, 6078*, <i>for</i> 1·046 <i>read</i> 1·050.
14, 3418*, <i>for</i> 2·156 <i>read</i> 2·153.	22, 6319*, <i>for</i> 24·906 <i>read</i> 24·909.
15, Plate 881, R.A. 2 ^h 16 ^m .	27, 7968*, <i>for</i> 23·741 <i>read</i> 23·746, <i>and for</i> 23·558
A B C	<i>read</i> 23·562.
-·02509 +·00575 +·1332	27, 8029*, <i>for</i> 22·044 <i>read</i> 22·040.
D E F	29, 8651*, <i>for</i> 12·100 <i>read</i> 12·104.
-·00571 -·02566 +·0011	34, 10754*, <i>for</i> 23·296 <i>read</i> 23·299.
17, 4561*, <i>for</i> 25·022 <i>read</i> 25·025.	35, 10851*, <i>for</i> 1·338 <i>read</i> 1·341.
17, 4604*, <i>for</i> 4·215 <i>read</i> 4·211.	35, 10851*, <i>for</i> 0·135 <i>read</i> 0·139.
18, 4952*, <i>for</i> 24·761 <i>read</i> 24·764.	

PAGE

- 35, 10862*, *for* 1·386 *read* 1·383.
 38, 11944*, *for* 0·850 *read* 0·855.
 38, 12069*, *for* 23·520 *read* 23·516.
 38, 12227*, *for* 12·466 *read* 12·476.
 39, 12575*, *for* 14·444 *read* 14·447.
 42, 13572*, *for* 19·680 *read* 19·677.
 43, 13785*, *for* 5·627 *read* 5·630.
 44, 14192*, *for* 2·513 *read* 2·518.
 45, 14638*, *for* 24·520 *read* 24·517.
 45, 14740*, *for* 23·184 *read* 23·180.
 46, 14923*, *for* 7·078 *read* 7·081.
 50, 16309*, *for* 25·473 *read* 25·477.
 50, 16441*, *for* 21·030 *read* 21·027.
 50, 16488, *for* 22·415 *read* 22·514.
 50, 16524, *for* 15·734 *read* 16·734.
 52, 17319*, *for* 23·540 *read* 23·537.
 55, 18096*, *for* 25·054 *read* 25·045.
 56, 18461*, *for* 12·437 *read* 12·440.
 62, 20585*, *for* 1·807 *read* 1·811.
 62, 20653*, *for* 22·223 *read* 22·226.
 64, 21583*, *for* 25·299 *read* 25·304.
 66, 22228*, *for* 25·337 *read* 25·342.
 68, 22849*, *for* 24·042 *read* 24·036.
 70, 23416*, *for* 3·120 *read* 3·122 and *for* 24·024
read 24·020.
 70, 23510*, *for* 0·241 *read* 0·237.
 71, 24095*, *for* 25·412 *read* 25·405.
 75, 25350*, *for* 25·062 *read* 25·070.
 75, 25416*, *for* 1·554 *read* 1·560.
 76, 25616*, *for* 20·388 *read* 20·391.
 76, 25625*, *for* 21·650 *read* 21·654.
 77, 26173*, *for* 13·192 *read* 13·189.
 78, 26537*, *for* 12·470 *read* 12·473.
 79, 26858*, *for* 25·694 *read* 25·701.
 89, Plate 630 R.A., 10^h 32^m.

A	B	C
—·02568	+·00946	+·0799
D	E	F
—·00972	—·02589	—·1338

 93, 31751*, *for* 9·646 *read* 8·650.
 93, 32021*, *for* 14·205 *read* 14·202.
 94, 32398*, *for* 15·836 *read* 15·840.
 95, 32505*, *for* 8·646 *read* 8·650 and *for* 1·532
read 1·530.

PAGE

- 95, 32628*, *for* 15·075 *read* 15·082.
 97, Plate 620, R.A. 11^h 44^m.

A	B	C
—·02550	+·00302	+·1704
D	E	F
—·00336	—·02587	—·4932

 97, 33224*, *for* 2·253 *read* 2·257.
 97, 33279*, *for* 6·874 *read* 0·880.
 98, 33597*, *for* 23·758 *read* 23·761.
 98, 33662*, *for* 0·751 *read* 0·754.
 98, 33698*, *for* 25·178 *read* 25·183.
 99, Plate 640, R.A. 12^h 8^m.

A	B	C
—·02565	—·00440	—·2903
D	E	F
+·00406	—·02544	—·1810

 99, 34158*, *for* 0·728 *read* 0·733.
 102, 35248*, *for* 17·164 *read* 17·157 and *for* 9·130
read 9·132.
 102, 35287*, *for* 10·740 *read* 10·736.
 103, 35403*, *for* 9·374 *read* 9·370.
 103, 35467*, *for* 3·407 *read* 3·410.
 106, 36832*, *for* 6·346 *read* 6·349.
 107, 36937*, *for* 2·987 *read* 2·990.
 107, Plate 654, R.A. 13^h 28^m.

A	B	C
—·02555	+·00718	+·1562
D	E	F
—·00704	—·02597	—·2182

 112, Plate 675, R.A. 14^h 16^m.

A	B	C
—·02528	+·00489	+·1107
D	E	F
—·00580	—·02593	—·3348

 152, 53884, *for* 14·011 *read* 14·009.
 157, 55821, *for* 17·691 *read* 17·689.
 171, 60913, *for* 15·256 *read* 15·260.
 184, 65420, *for* 15·110 *read* 15·106.
 186, 66358, *for* 12·062 *read* 12·060.
 195, R.A. 4^h 32^m, A. 1458, *for* 18·8829 *read* 18·8899.

HYDERABAD ASTROGRAPHIC CATALOGUE.

1900.

VOL. II.

INTRODUCTION.

[A more detailed Introduction will be found at the beginning of Vol. I. Only such information as differs from volume to volume is repeated here.]

I.—HISTORICAL SUMMARY.

A large part of the work of the present zone was done concurrently with the work on Zone -17° , but when Zone -17° was finished in 1916 December a considerable portion of Zone -18° remained outstanding, and the zone was not actually completed until about a year later (1917 December). The earliest plate used in the present volume is dated 1915 January 11, and the measurement of plates in this zone started shortly afterwards. The last plate taken for this volume is dated 1917 November 7. The measurement was completed early in 1917 December, so that the work on the zone was spread over nearly three years. The work was copied for press and sent to the printers as the measurement proceeded, so that by the time the last plate was completed, three-quarters of the volume had been printed and passed for press.

As in the case of Zone -17° , throughout the work on this zone, the strictest economy in time has been exercised. With more care on the part of the observers, the plate constants might have been kept smaller; in some cases we might have waited to secure plates showing more stars (this, of course, was done in cases where the original plates fell very far below the standard, but the actual lower limit set was not strictly adhered to where any delay would have been caused by waiting for another plate); in a few cases plates have been used in which, owing to errors in guiding, the images, though measurable, are not perfectly circular; and there

is no doubt that the early plates (the 28 plates with numbers less than 598) could be somewhat improved by re-measurement. It is hoped, however, that in spite of the rapidity with which the work has been done, an accuracy sufficient for the purposes of the Astrographic Catalogue has been attained. The justifications for not spending more time over the above and other points are mainly :—

(i) Owing to local circumstances His Highness' Government were only prepared to support the Observatory for a very limited time, during which it was desirable, if possible, to complete the share of the work allotted to Hyderabad.

(ii) The project now known as the Astrographic Catalogue was initiated as far back as 1887, and after the lapse of thirty years is still very far from complete. Particularly is this the case with regard to the zones south of the Equator; the time seems to have come when we are no longer justified in spending an unlimited amount of time over the less important details of the work, and when it is desirable to sacrifice such details in order that the work may be completed within a reasonable time.

These points have been constantly borne in mind throughout the work on this zone, and have again and again influenced decisions in smaller matters; at the same time, every effort has been made to attain a standard of accuracy of the same order as that obtained elsewhere.

The following is a list of persons who have taken part in the work of this zone, with the initials by which they are denoted :—

Name.	Initials.	Name.	Initials.
R. J. Pocock	P.	Syed Ahmed	A.
T. P. Bhaskaran	B.	M. Anantanarayanan	N.
C. Hanmant Rao	H.	M. K. Bappu	M.
F. B. Shroff	F.	U. S. Raghavendra Rao	R.
D. R. Sripathi Rao	S.	M. Ahmadullah	M.A.

In addition, V. Ramachandran and M. V. Vaidyanatha Sastri have assisted with solving the plates and other computing work, while A. J. Govinda Raja, M. Azimuddin, A. V. Bheema Rao, Prakasa Rao, and Dawood Bhai, the two latter working as volunteers, have assisted in taking down the measures, computing, preparing the copy for press and reading the proofs; A. Abkhan has also assisted with the copy for press.

II.—THE INSTRUMENT.

See Introduction to Vol. I. p. vi.

III.—PHOTOGRAPHIC.

The plates for this zone have all been given at least two exposures, the second exposure being about half the length of the first, with the telescope slightly displaced in declination between the two exposures.—The actual lengths of the exposures have varied with the quality of the plates, the primary exposure being not less than twelve and not more than twenty minutes. The actual exposures given to each plate will be found in the table of details below. The exposures for plates taken prior to 1917 September 15 were timed with a mean time chronometer, and the intervals are, therefore, given in mean time; for plates taken later than this date a sidereal chronometer was used, and the lengths of the exposures for such plates are consequently given in sidereal time. The images due to the longer exposure were measured in all cases save four, viz. :—

5 h 44 m ; 10 h 16 m ; 19 h 28 m ; 20 h 40 m.

when the shorter exposure was measured, the longer being defective.

Plates with numbers not greater than 597 in the present volume are all Barnet Rocket plates, maker's number, B 10,284; plates with numbers from 598 to 881 are Barnet Stella plates, maker's number, A 10,412; plates with numbers over 881 in this volume are Stella plates, number A 10,426. All were developed with metol hydroquinone, by Mr Shroff or Mr Bappu; but for plates with numbers greater than 1121, monomet was used as a substitute for metol.

As in the case of the previous zone, no effort has been made to secure large numbers of stars in the richer regions, large numbers of the fainter stars on such plates being deliberately ignored in measuring them. This is especially the case about 18^h, where the zone crosses the edge of the star cloud in Sagittarius. On the other hand, every effort consistent with the rapid execution of the work has been made to obtain a good number of stars in the poorer regions. There are only a few plates containing less than 150 stars, and no plates with less than 100.

The ratio of the number of stars to the number shown on Schönfeld's map has also been used as a criterion. There are only three cases in which a ratio of two (equivalent to 2.5 times Argelander) has not been attained, and for more than two-thirds of the plates a ratio of three or more has been attained. The average number of stars per plate is 341.

Two réseaux have been used in the course of the work on this zone, one for plates with numbers less than 598, and one for Plate 598 and subsequent plates. The former was one of a number supplied to the Observatory by the Société Genevoise, none of which were very satisfactory. Owing to the war, however, it was impossible to obtain one elsewhere at the time the work was started, and therefore this, the best

available, was used. The lines are fairly clearly cut (except $y=26$, which is poor), but they are not rectangular; this, however, seems to be the only important error, and it is automatically corrected by the plate constants; its effect is to make the sum of the two orientation constants a small positive quantity instead of zero. This réseau is ruled to the standard scale with a spacing of 5.00 mm. between the lines; as the focal length of the Hyderabad telescope requires a spacing of approximately 4.915 mm., this involves a large scale correction of about -0.1750 times the measured co-ordinates.

As this réseau was very old at the time the astrographic work was started, Professor Turner sent from Oxford their réseau No. 5, made by Messrs Gautier, which was never used at Oxford owing to the fact that the line $y=3$ is displaced. This réseau has, however, been used for all the later plates (152 out of 180) in Zone -18° , the measures being corrected for the error (see below "Errors of Réseaux"); as it is ruled to suit the focal length of the Oxford instrument, with spacings of 5.04 mm., its use involves scale value corrections of -0.02500 approximately to the measured co-ordinates.

Subsequently, a third réseau, made at the National Physical Laboratory, was received at Hyderabad in 1917, but only a few plates then remained to be taken in Zone -18° , and this réseau was not brought into use until they had been completed.

The réseau was printed on the plate, just before development, by exposure to an electric light—stopped down so as to allow of an exposure of about ten seconds for new plates—at a distance of 18 feet, the réseau and plate being prevented from coming into contact by an edging of moderately thick paper.

The following table gives the particulars of the plates in the present volume.

The first column gives the number of the plate in the Hyderabad series.

The second column gives the fraction of the year corresponding to the (astronomical) day on which the exposure was made, to three places of decimals.

The third column gives the approximate R.A. of the plate centre.

The fourth column gives the hour angle corresponding to the middle of the exposure which was subsequently measured. Clock corrections have been applied where they amounted to one minute or more.

The fifth column gives the lengths of the exposures (in mean time, except for plates taken after 1917.704, which are in sidereal time); as already stated, the longest exposure was measured in all cases except four, viz. :—

5 h 44 m ; 10 h 16 m ; 19 h 28 m ; 20 h 40 m.

The sixth column indicates the observer who guided the telescope; a second observer was always present to assist in setting the instrument, etc. The significance of the different initials is explained above.

The seventh column shows which of the measuring instruments was used. Each measurer used the same instrument throughout. Plates measured in Nos. 1 and 2 had to be measured with the glass side up.

The eighth column shows the measurer. Each plate was measured throughout in both positions by one measurer.

The ninth column shows the number of stars measured.

The tenth column shows the ratios of the numbers in the ninth column to the numbers in the corresponding areas of Schönfeld's map.

The eleventh column shows the number of stars in the corresponding regions of the A.G. Catalogues (Washington and Algiers—stars occurring in both are, of course, only counted once).

List of Plates in Zone -18° .

No. of plate.	Year and fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.		Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (W. and A.)
		h	m	h	m	m	m						
822	16-887	0	0	0	42 E.	12	6	H.	1	S.	144	2.8	16
848	16-906		8	0	36 E.	12	6	P.	4	M.	207	3.1	25
849	16-906		16	0	8 E.	12	6	R.	3	A.	205	3.9	19
850	16-906		24	0	34 W.	12	6	N.	1	R.	197	2.9	17
823	16-887		32	0	41 E.	12	6	S.	3	N.	198	2.9	23
833	16-901		40	0	41 E.	12	6	A.	1	S.	212	3.6	16
883	16-947		48	0	13 W.	12	6	P.	3	A.	141	2.4	17
824	16-887	0	56	0	35 E.	12	6	H.	4	M.	189	3.4	17
858	16-909	1	4	0	14 W.	12	6	A.	3	N.	174	3.0	14
834	16-901		12	0	23 E.	12	6	A.	1	S.	211	3.8	19
841	16-904		20	0	56 E.	12	6	S.	4	M.	216	3.3	22
886	16-950		28	0	22 E.	12	6	A.	1	S.	138	2.3	23
851	16-906		36	0	4 W.	12	6	R.	1	R.	201	3.5	22
817	16-884		44	0	10 W.	12	6	M.	3	A.	189	3.1	22
859	16-909	1	52	0	12 W.	12	6	A.	4	M.	164	2.5	19
835	16-901	2	0	0	34 E.	12	6	A.	3	N.	183	2.5	23
843	16-904		8	0	49 E.	12	6	S.	1	R.	243	3.4	23
818	16-884		16	0	8 W.	12	6	M.	1	S.	186	2.9	16
844	16-904		24	0	28 E.	12	6	H.	1	R.	208	3.7	14
836	16-901		32	0	37 E.	12	6	A.	3	A.	222	4.1	19
819	16-884		40	0	16 W.	12	6	M.	4	M.	214	3.3	23
845	16-904		48	0	20 E.	12	6	S.	3	N.	249	3.7	14
825	16-887	2	56	0	56 E.	12	6	S.	3	A.	205	3.2	21
810	16-882	3	4	0	25 E.	12	6	S.	3	A.	214	3.0	20
826	16-887		12	0	22 E.	12	6	H.	4	M.	180	2.4	29
811	16-882		20	0	11 E.	12	6	A.	1	R.	242	4.3	19
838	16-901		28	0	24 E.	12	6	A.	2	M.A.	187	3.1	25
820	16-884		36	0	3 E.	12	6	M.	3	N.	211	4.2	18
827	16-887		44	0	23 E.	12	6	S.	4	M.	228	3.4	24
812	16-882	3	52	0	14 E.	12	6	S.	1	R.	314	4.1	29
868	16-994	4	0	1	3 E.	12	6	S.	3	A.	281	3.3	28
821	16-884	4	8	0	16 W.	12	6	M.	1	S.	287	3.6	32

List of Plates in Zone —18° (continued).

No. of plate.	Year and fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.	Observer.	Instru-ment.	Measurer.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (W. and A.)
		h	m	h	m	m						
828	16·887	4	16	0	26 E.	12 6	H.	3	N.	289	3·4	22
839	16·901		24	0	44 E.	12 6	A.	4	M.	233	2·9	26
847	16·904		32	0	52 E.	12 6	S.	2	M.A.	341	5·1	28
855	16·906		40	0	20 E.	12 6	R.	1	R.	354	4·4	26
856	16·906		48	0	12 W.	12 6	N.	3	A.	314	4·0	21
813	16·882	4	56	0	48 E.	12 6	A.	3	N.	414	5·7	24
907	16·958	5	4	1	5 E.	12 6	A.	4	M.	321	3·8	26
829	16·887		12	0	56 E.	12 6	S.	2	M.A.	413	4·6	31
863	16·909		20	1	2 E.	12 6	A.	1	S.	466	4·5	16
476	15·112		28	0	5 W.	15 8	A.	4	M.	284	3·1	30
864	16·909		36	0	49 E.	12 6	A.	4	M.	523	5·2	39
600	16·164		44	0	36 W.	15 8	R.	4	M.	369	3·7	30
458	15·104	5	52	0	48 E.	15 8	F.	3	N.	265	2·4	28
482	15·115	6	0	0	36 E.	15 8	F.	1	R.	325	2·6	29
445	15·049		8	0	41 E.	15 8	B.	3	A.	527	4·1	33
464	15·107		16	0	39 E.	15 8	B.	1	S.	381	3·0	40
436	15·027		24	0	1 W.	15 8	S.	3	N.	438	3·8	28
441	15·030		32	0	51 E.	15 8	N.	1	R.	506	4·4	32
459	15·104		40	0	34 E.	15 8	N.	1	S.	407	3·1	51
465	15·107		48	0	24 E.	15 8	S.	3	A.	580	4·4	43
471	15·109	6	56	0	17 E.	15 8	H.	3	N.	568	3·7	42
446	15·049	7	4	0	51 E.	15 8	M.	1	R.	1037	6·1	50
472	15·110		12	0	48 W.	15 8	R.	4	M.	696	4·0	46
442	15·030		20	1	4 E.	15 8	N.	3	N.	764	5·2	43
477	15·112		28	0	10 E.	15 8	A.	3	A.	745	4·6	51
460	15·104		36	0	48 E.	15 8	F.	1	S.	890	5·3	45
447	15·049		44	0	53 E.	15 8	B.	1	R.	1037	5·9	47
483	15·115	7	52	1	26 E.	15 8	N.	3	N.	632	3·9	32
484	15·115	8	0	0	54 E.	15 8	F.	3	A.	618	3·7	40
478	15·112		8	0	1 W.	15 8	A.	4	M.	560	3·5	40
456	15·101		16	0	21 E.	15 8	M.	4	M.	606	3·9	45
461	15·104		24	0	57 E.	15 8	N.	1	S.	458	2·9	42
485	15·115		32	0	51 E.	15 8	N.	3	A.	398	2·9	48
488	15·120		40	0	51 E.	15 8	H.	3	N.	303	2·6	28
462	15·104		48	0	43 E.	15 8	F.	1	R.	189	1·9	29
489	15·120	8	56	0	25 E.	15 8	N.	4	M.	174	2·3	25
494	15·123	9	4	0	27 E.	15 8	A.	4	M.	299	2·8	28
601	16·164		12	1	35 E.	15 8	S.	1	S.	464	4·6	30
495	15·123		20	0	7 E.	15 8	A.	4	M.	266	2·6	27
598	16·161		28	1	10 E.	16 8	P.	1	S.	493	4·9	32
606	16·167		36	1	8 E.	15 8	A.	3	N.	609	6·2	30
522	15·205		44	0	44 E.	15 8	F.	1	R.	207	2·3	23
602	16·164	9	52	1	25 E.	15 8	R.	1	R.	480	6·9	22
599	16·161	10	0	0	57 E.	16 8	P.	3	N.	532	7·1	22
607	16·167		8	0	40 E.	15 8	M.	3	A.	496	6·1	28
612	16·172		16	0	51 E.	15 8	H.	4	M.	309	3·4	26
618	16·175		24	0	43 E.	15 8	N.	1	S.	326	3·5	27
630	16·181		32	0	44 E.	15 9	B.	3	A.	342	3·9	25
631	16·181		40	0	10 E.	15 8	R.	4	M.	309	4·2	15
619	16·175	10	48	0	26 E.	15 8	S.	1	R.	369	5·8	23

List of Plates in Zone -18° (continued).

No. of plate.	Year and fraction, 1900+.	R.A. of centre.	Hour angle.	Exposures.	Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (W. and A.)
		h m	h m	m m						
613	16.172	10 56	0 56 E.	15 8	R.	1	S.	293	3.7	20
625	16.178	11 4	0 44 E.	15 8	M.	3	N.	334	4.6	23
648	16.233	12 0	0 55 E.	12 6	A.	3	A.	169	2.3	24
614	16.172	20 0	0 30 E.	15 15	H.	2	M.A.	223	2.7	27
716	16.345	28 0	0 38 W.	12 6	P.	3	A.	219	2.8	22
650	16.236	36 1	0 19 E.	12 6	R.	3	N.	167	2.1	25
620	16.175	44 0	0 40 E.	15 8	N.	2	M.A.	272	3.3	35
632	16.181	11 52	0 41 E.	15 8	B.	1	S.	226	2.6	15
615	16.172	12 0	0 15 E.	15 8	R.	3	A.	354	4.7	23
640	16.186	8 0	0 51 E.	15 8	A.	3	N.	306	4.5	13
717	16.345	16 0	0 25 W.	12 6	F.	3	A.	228	3.3	17
621	16.175	24 0	0 30 E.	15 8	S.	1	R.	350	4.8	27
626	16.178	32 1	0 5 E.	15 8	M.	2	M.A.	269	3.6	29
651	16.236	40 0	0 48 E.	12 6	N.	1	S.	156	2.2	21
641	16.186	48 0	0 56 E.	15 8	M.	4	M.	293	3.9	23
627	16.178	12 56	0 49 E.	15 8	A.	1	S.	286	4.1	17
653	16.241	13 4	1 41 E.	12 6	H.	2	M.A.	200	3.2	23
718	16.345	12 0	0 1 E.	12 6	P.	4	M.	256	3.2	16
680	16.276	20 0	0 44 W.	12 6	M.	3	N.	268	3.4	22
654	16.241	28 1	0 1 E.	12 6	H.	4	M.	290	3.8	14
658	16.246	36 0	0 43 E.	12 6	R.	1	S.	244	3.0	19
665	16.257	44 1	0 12 E.	12 6	N.	3	N.	322	5.3	21
674	16.274	13 52	0 6 E.	12 6	H.	2	M.A.	248	3.4	18
686	16.318	14 0	0 43 E.	12 6	M.	4	M.	240	2.9	24
687	16.318	8 0	0 19 E.	12 6	M.	3	A.	230	2.9	20
675	16.274	16 0	0 5 W.	12 6	R.	2	M.A.	283	3.9	23
704	16.329	24 0	0 31 E.	12 6	M.	4	M.	204	2.8	20
692	16.320	32 0	0 47 E.	12 6	A.	3	A.	248	3.2	24
705	16.328	40 0	0 9 E.	12 6	M.	3	A.	254	3.0	21
676	16.274	48 0	0 7 W.	12 6	H.	1	S.	279	3.6	26
681	16.276	14 56	0 4 W.	12 6	M.	4	M.	255	3.3	22
694	16.320	15 4	0 4 E.	12 6	S.	2	M.A.	288	3.7	26
688	16.318	12 0	0 47 E.	12 6	M.	3	N.	286	3.4	26
711	16.331	20 1	0 15 E.	12 6	A.	3	A.	260	3.3	17
698	16.323	28 1	0 29 E.	12 6	H.	2	M.A.	366	4.2	22
712	16.331	36 0	0 51 E.	12 6	S.	1	S.	337	3.7	19
689	16.318	44 0	0 44 E.	12 6	M.	4	M.	220	3.0	24
713	16.331	15 52	0 29 E.	12 6	A.	3	A.	266	3.8	15
699	16.323	16 0	0 28 E.	12 6	N.	2	M.A.	258	4.0	19
706	16.328	8 0	0 59 E.	12 6	M.	4	M.	211	3.4	16
714	16.331	16 0	0 22 E.	12 6	S.	3	A.	233	3.5	12
690	16.318	24 0	0 35 E.	12 6	M.	1	R.	106	2.3	14
701	16.323	32 0	0 59 E.	12 6	N.	2	M.A.	144	3.1	16
719	16.348	40 1	0 40 E.	12 6	A.	4	M.	190	3.1	19
715	16.331	48 0	0 24 E.	12 6	A.	3	A.	279	3.6	18
707	16.328	16 56	1 1 E.	12 6	M.	4	M.	276	2.8	24
720	16.348	17 4	1 32 E.	12 6	S.	3	A.	534	4.5	40
708	16.328	12 0	0 38 E.	12 6	M.	4	M.	438	4.7	31
721	16.348	20 1	0 20 E.	12 6	A.	3	A.	586	5.9	30
722	16.348	17 28	0 59 E.	12 6	S.	3	N.	780	7.2	32

List of Plates in Zone —18° (continued).

No. of plate.	Year and fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.	Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (W. and A.)
		h	m	h	m	m						
736	16.496	17	36	0	30 W.	12 6	F.	1	R.	253	2.4	30
727	16.430		44	0	48 E.	12 6	A.	4	M.	577	6.0	19
747	16.652	17	52	0	18 W.	12 7	M.	1	R.	774	5.3	30
762	16.671	18	0	0	34 W.	12 6	M.	3	N.	1095	8.2	33
728	16.430		8	0	42 E.	12 6	F.	1	S.	1692	8.7	59
729	16.430		16	0	24 E.	12 6	A.	4	M.	895	5.9	55
730	16.430		24	0	4 E.	12 6	F.	3	N.	1354	12.0	35
743	16.556		32	0	8 E.	12 6	M.	1	R.	884	7.7	23
748	16.652		40	0	11 W.	12 6	M.	4	M.	521	3.5	35
750	16.657		48	0	37 W.	12 6	M.	3	A.	550	4.0	35
760	16.668	18	56	1	29 W.	12 6	A.	1	R.	438	2.7	37
1062	17.383	19	4	0	45 E.	12 6	S.	3	N.	538	3.7	31
1063	17.383		12	0	23 E.	12 6	N.	4	M.	548	3.6	44
1074	17.687		20	0	32 W.	12 6	N.	3	N.	245	2.0	44
1076	17.690		28	0	26 W.	12 6	M.	4	M.	235	2.3	34
1092	17.764		36	0	32 W.	18 10	N.	3	N.	207	2.0	22
1064	17.383		44	0	25 E.	12 6	S.	3	A.	276	2.6	26
1116	17.840	19	52	1	41 W.	20 10	S.	1	R.	246	2.1	23
1065	17.383	20	0	0	10 E.	12 6	N.	1	R.	263	2.7	30
1120	17.843		8	2	25 W.	20 10	H.	3	N.	244	2.6	27
1097	17.780		16	0	3 E.	15 8	R.	1	S.	255	2.5	34
1099	17.783		24	0	7 E.	18 10	N.	4	M.	332	3.3	29
1094	17.764		32	1	58 W.	20 10	N.	3	N.	170	1.7	28
1100	17.783		40	0	38 W.	18 10	N.	1	R.	210	2.4	25
1098	17.780		48	0	2 W.	15 8	A.	4	M.	175	2.2	22
761	16.668	20	56	0	10 E.	14 7	A.	2	M.A.	229	2.3	28
794	16.876	21	4	1	15 W.	12 6	H.	4	M.	370	4.0	23
1114	17.835		12	0	39 W.	20 10	P.	1	R.	166	2.2	18
1122	17.846		20	0	47 W.	20 10	M.	4	M.	248	2.6	13
1127	17.849		28	0	36 W.	20 10	S.	1	S.	195	2.4	21
1108	17.786		36	0	8 E.	18 10	S.	1	R.	268	3.6	23
795	16.876		44	1	18 W.	12 6	S.	3	A.	352	5.0	23
1101	17.783	21	52	0	8 W.	18 10	S.	4	M.	241	4.2	19
1117	17.840	22	0	0	47 W.	20 10	R.	1	R.	258	3.8	27
1123	17.846		8	0	51 W.	20 10	R.	3	N.	182	3.3	17
814	16.884		16	1	17 W.	12 6	M.	2	M.A.	207	2.8	10
1102	17.783		24	0	16 W.	18 9	S.	1	S.	195	2.8	28
1128	17.849		32	0	17 W.	20 10	S.	4	M.	184	2.8	22
815	16.884		40	0	23 W.	12 6	M.	4	M.	239	3.4	22
1118	17.840		48	0	50 W.	20 10	S.	1	R.	149	2.2	14
816	16.884	22	56	1	41 W.	12 6	M.	1	R.	232	3.1	21
1121	17.843	23	4	1	9 W.	20 10	N.	3	N.	120	1.6	20
830	16.890		12	0	17 W.	12 6	R.	2	M.A.	134	2.2	19
1095	17.764		20	0	2 E.	18 12	M.	4	M.	117	2.0	15
1103	17.783		28	0	0	18 10	N.	1	R.	166	2.8	20
831	16.890		36	0	35 W.	12 6	N.	1	R.	130	2.1	13
832	16.901		44	0	11 E.	12 6	A.	3	N.	233	3.4	19
884	16.950	23	52	0	12 W.	12 6	A.	4	M.	196	3.9	20

The total number of star-images measured is 61,378.

IV.—MEASUREMENT OF THE PHOTOGRAPHS.

See Introduction, Vol. I. p. xiii.

V.—DETERMINATION OF PHOTOGRAPHIC MAGNITUDES.

At the same time that the stars are measured, an estimate is made of the diameter of the star-image. The sum of the estimates made in the two positions of the plate is given in the second column under the heading d in the Catalogue. The unit is thus $0''.15$, as at Greenwich.

The remarks as to the value of these estimates, as made at Hyderabad in the Introduction to Vol. I. p. xiii, apply to a large extent to the present zone, but in the case of the plates measured towards the conclusion of this zone, there has been considerable improvement in this part of the work, and the estimates are on a better scale, though still leaving room for improvement.

The adopted formula is

$$m = a - b\sqrt{d},$$

where m is the required photo-magnitude and d the diameter in units of $0''.15$; a and b are certain constants.

In the case of the present volume the values $b=1.10$ and $b=1.05$ were found for early and late plates respectively. Both these are so close to 1.09 , the value found for Zone -17° , that there was no great need to alter the value, especially as the errors of the magnitudes of the fainter stars are much larger than any error introduced by using the value $b=1.05$ instead of 1.09 (see *Mon. Not. R.A.S.*, vol. 78 p. 367). However, when the printing was started it was not known that the later plates would conform so closely to this value, and the actual values 1.10 and 1.05 have been given at the head of the plates and used in computing the values of a .

The magnitudes of the reference stars are given in the Washington and Algiers Catalogues on scales similar to the B.D. scale. The scales of these two Catalogues are so closely similar that there seemed no necessity to treat them separately, and by counting the numbers given under different headings they were converted into a scale comparable with that of Chapman and Melotte.

These revised magnitudes were then substituted in the above formula, and the value of a determined for each star on the plate. The mean value of a thus determined for each plate was adopted.

Tables are given on pages xlv to xlix, by means of which the measured diameter may be converted into magnitudes.

VI.—MEASURES OF POSITION.

PERSONALITY OF MEASURERS.

The personality is determined for each plate as the work proceeds in the same manner as at Oxford. A full discussion will be found in *Mon. Not. R.A.S.*, vol. lvii. p. 621, and it is only necessary here to tabulate the mean personality of each measurer.

In the work on Zone -17° it was found that during the period 1915 August–1916 March, when no Hyderabad plates were measured, one or two of the measurers changed their personality. For all measurers the personality is given separately for the two groups—there have also been one or two other changes of personality, in some cases probably accounted for by severe attacks of fever, to which most of the staff became liable after the introduction to the station of a virulent type of malaria, brought by the troops from East Africa and Mesopotamia. Within the groups indicated below the personality remains remarkably constant.

Personality determined from Plates in Zone -18° .

Measurer.	Limiting plate Nos.	R—D.		No. of plates.
		<i>x.</i>	<i>y.</i>	
M.	456–495	+ 8	— 1	7
	600–1128	+ 5	+ 2	38
N.	436–488	—16	+ 7	6
	599–1123	— 5	+ 7	26
R.	441–522	— 2	+ 5	6
	602–855	— 5	— 4	17
	1065, 1100, 1108, 1116	+ 3	+ 5	4
	1103, 1114, 1117, 1118	— 2	+ 5	4
A.	445–485	— 1	— 2	26
S.	459–464	— 6	+ 3	4
	598–728	— 9	— 5	11
	818–863	— 7	+12	7
	1097–1127	+ 3	+ 1	3
M.A.	614–847	+ 8	+ 5	16

The discordances R—D are tabulated above in units of $0''.03$, and are double the “error of bisection.”

PROBABLE ERROR OF THE MEASURES.

For the probable error of a single bisection see Introduction, Vol. I. p. xvi. A determination of the probable error of the final star place is given in the Introduction to Vol. I. p. xvii. This, however, depends on stars which occur on two plates only, and always near the edge of both. Now that two zones have been measured there are a considerable number of reference stars for which residuals are available from three plates, and a new determination has been made from such stars. Owing to the natural improvement in the work as it proceeds, and to the fact that such stars occur well placed on at least one plate, they may be expected to give a somewhat smaller value of the probable error, but one which is probably still an upper limit. A separate determination has also been made for the reference stars from the Algiers Catalogue, the residuals of which are much larger than in the case of the Washington stars, and which do not, therefore, give such reliable plate constants; they may be expected, then, to give a larger probable error than the Washington stars.

The three values of the probable error so determined are :—

	In x .	In y .	Mean.
Washington stars { original determination . . .	± 0.47	± 0.32	± 0.40
{ later determination . . .	± 0.39	± 0.31	± 0.35
Algiers stars	± 0.46	± 0.36	± 0.41

The result is, therefore, to confirm the conclusion reached previously that ± 0.40 may be taken as certainly not too low an estimate of the probable error of a co-ordinate as finally determined with the provisional constants.

ERRORS OF RÉSEAU.

It has already been stated that the réseau used for the great majority of the plates in the present volume has the line $y=3$ displaced. The displacement is parallel to the true direction and amounts to $\cdot 0158$ réseau intervals. In measuring the stars in the two lines affected the focal length of the measuring microscope is altered after the x co-ordinates of these stars have been measured in order to measure the y co-ordinates.

The means of the two measures so made in different positions of the plate are then corrected; for stars for which $3 > y > 3$ the correction is $-.0158 (y-2)$, and for stars for which $4 > y > 3$ the correction is $-.0158 (4-y)$, and is easily applied by means of a small table; thus, when y lies between 2.601 and 2.665 , subtract 0.010 , and when y lies between 3.601 and 3.665 , subtract 0.006 .

VII.—PLATE CONSTANTS.

The plate constants were determined by the method and formulæ given in *Monthly Notices of the R.A.S.*, liv. p. 11. The rigorous formulæ were, however, replaced by approximate formulæ more convenient in practice (see below).

The positions of the reference stars for the present volume were taken partly from the Washington and partly from the Algiers Astronomische Gesellschaft Catalogue. Of this latter Catalogue a type-written copy was kindly placed at our disposal by the Director of the Paris Observatory. For stars common to both Catalogues, the Algiers' place was used. Both Catalogues give the positions of the stars for 1900·0, the epoch of the Astrographic Catalogue. After the constants have been determined they are used to correct the Hyderabad places for comparison with Washington and Algiers, the residuals so obtained being entered in ledgers. In the case of comparisons with Washington, the residuals are usually small, except in the case of known proper motion stars; about 80 per cent. are under one second of arc, and scarcely any exceed three seconds of arc. Only one actual error has been detected in the Washington Catalogue. In the case of the comparisons with Algiers, the residuals are somewhat larger; a considerable number of errors have also been detected, most—if not all—of which probably exist only in the typed copy, and are probably absent from the original manuscript.

The method of computing the provisional constants is fully explained in the Introduction to the Oxford Astrographic Catalogue, vol. i. pp. xxxvii *et seq.*; but for convenience of reference it is described briefly below.

The Washington and Algiers places were first converted into standard co-ordinates by the methods explained in the next section. A Catalogue of these standard co-ordinates follows the photographic Catalogue (see p. 189). An approximate solution was then formed, generally from four stars only. The scale value was always taken as —·01750 or —·02500 (for the application of the former a table was constructed; the latter is easily worked mentally), and the other constants were chosen to be convenient numbers to work with.

Now if ξ , η represent standard co-ordinates referred to the plate centre as origin, α , δ , R.A. and Declination, A , D , the R.A. and Declination of the plate centre, we have

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta, \\ \eta &= k \tan (\theta - D), \\ \tan \theta &= \sec (\alpha - A) \tan \delta, \\ k &= 687\cdot549 \text{ (reciprocal of circular measure of } 5').\end{aligned}$$

Then if $\xi' = \xi + 13$, $\eta' = \eta + 13$; ξ' , η' represent standard co-ordinates referred

to the corner of the réseau, and if $\Delta\xi'$, $\Delta\eta'$ represent the correction calculated by means of the approximate solution,

$$x' = \xi' + \Delta\xi', \quad y' = \eta' + \Delta\eta'.$$

If x , y represent the original measures, we can form the differences $x-x'$, $y-y'$ and find the mean values of x , $x-x'$, y , $y-y'$ for the four quarters of the plate. We thus get four pairs of equations of the type

$$ax + by + c = x - x', \quad dx + ey + f = y - y',$$

from which the six constants a , b . . . can be computed.

Now, if the constants of the approximate solution are represented by A' , B' , . . . and those of the final solution by A , B , . . . we have the pairs of equations

$$\begin{aligned} x' &= \xi' + A'\xi' + B'\eta' + C', & y' &= \eta' + D'\xi' + E'\eta' + F', \\ x &= x' + ax + by + c, & y &= y' + dx + ey + f, \\ \xi' &= x - Ax - By - C, & \eta' &= y - Dx - Ey - F, \end{aligned}$$

and A , B , C . . . are connected with A' , B' , . . . a , b . . . by the relations

$$\begin{aligned} A &= A' + a - A'(A' + a) - B'(D' + d), \\ B &= B' + b - A'(B' + b) - B'(E' + e), \\ C &= C' + c - A'(C' + c) - B'(F' + f), \\ D &= D' + d - E'(D' + d) - D'(A' + a), \\ E &= E' + e - E'(E' + e) - D'(B' + b), \\ F &= F' + f - E'(F' + f) - D'(C' + c). \end{aligned}$$

The corrections to the sums $A' + a$, etc., are small, and are very easily applied.

Finally, we have the equations

$$\xi = x - 13 - Ax - By - C, \quad \eta = y - 13 - Dx - Ey - F,$$

connecting the standard co-ordinates with the measures by means of the provisional constants.

In forming the equations for each plate, stars known to have large proper motions, and other stars showing abnormal residuals, were omitted from the solution.

Theoretically we should have $A - E =$ a small positive quantity, due to refraction (see below), and $B + D = 0$, or, in the case of plates with numbers less than 598, a small positive quantity; where $A - E$, $B + D$, are negative or large positive quantities, it generally happens that the reference stars are not evenly distributed over the plate, though it is not possible in this way to account for all the abnormal results.

Accurate formulæ for the effects of differential refraction are given in *Monthly Notices of the R.A.S.*, lvii. p. 135.

If β_0 is the coefficient of refraction, X, Y are the co-ordinates of the zenith supposed projected on the plate, and X, Y, x , y are measured in terms of the focal length of the telescope as unit, the corrections to be applied to x , y are, omitting terms beyond the first order, which can have no effect on plates in this volume,

$$\Delta x = \beta_0(1+X^2)x + \beta_0XYy; \quad \Delta y = \beta_0XYx + \beta_0(1+Y^2)y.$$

These corrections are tabulated below for plates taken within three hours of the meridian.

Zone -18° .—Correction for Refraction in Units of $\cdot 000001$.

Hour angle.	$\beta_0(1+X^2)$.	β_0XY .	$\beta_0(1+Y^2)$.	Hour angle.	$\beta_0(1+X^2)$.	β_0XY .	$\beta_0(1+Y^2)$.
h m				h m			
0 0	283	0	426	1 36	362	112	443
8	284	8	426	44	378	125	447
16	285	16	426	52	396	138	451
24	287	25	427	2 0	417	152	455
32	291	33	428	8	441	167	460
40	295	42	429	16	468	184	466
48	301	51	430	24	499	202	471
0 56	307	60	432	32	535	222	479
1 4	315	70	433	40	576	244	486
12	325	80	436	48	623	269	495
20	335	90	438	2 56	679	297	506
1 28	348	101	441	3 4	744	329	518

The corrections at $2^h 0^m$ are

$$\begin{aligned} \Delta x &= +\cdot 000417x \mp \cdot 000152y, \\ \Delta y &= \mp \cdot 000152x + \cdot 000455y, \end{aligned}$$

taking the upper sign for plates taken in east hour angles.

The corrections for differential aberration are—

$$\begin{aligned} \Delta x &= +K \cos CW \cdot x, \\ \Delta y &= +K \cos CW \cdot y, \end{aligned}$$

where C is the plate centre and W is the point to which the Earth tends. We have

$$K \cos CW = 0\cdot 000100 \{-0\cdot 40 \sin D \cos \odot - 0\cdot 96 \cos D \sin (A - \odot)\},$$

where \odot is the sun's longitude; omitting a term $0\cdot 000004 \cos D \sin (A + \odot)$.

For the present volume $D = -18^\circ$, and we have therefore

$$K \cos CW = +0\cdot 000012 \cos \odot - 0\cdot 000091 \sin (A - \odot).$$

It will make very little difference if we substitute the sun's R.A. for longitude ; and then for a plate taken on the meridian at midnight $A - \odot = 180^\circ$, and the second term vanishes. For plates taken on the meridian at other times, the second term has the following values in units of the sixth decimal place :—

6 ^h .	7 ^h .	8 ^h .	9 ^h .	10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .
−91	−88	−79	−65	−46	−24	0	+24	+46	+65	+79	+88	+91

The first term has the following values at the middle of each month in units of the sixth decimal place :—

Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
+5	+10	+12	+11	+7	+1	−5	−10	−12	−11	−7	−1

Thus the measures made on a plate taken on the meridian at 17 hours in September require the corrections $+0.000076x$, $+0.000076y$ for aberration.

VIII.—DETERMINATION OF A STAR'S STANDARD CO-ORDINATES FROM ITS RIGHT ASCENSION AND DECLINATION: AND OF ITS R.A. AND DECLINATION FROM ITS MEASURED CO-ORDINATES.

By means of the provisional constants given at the head of each plate, the standard co-ordinates of a star are obtained by the formulæ

$$\begin{aligned}\xi &= x - 13 - Ax - By - C, \\ \eta &= y - 13 - Dx - Ey - F.\end{aligned}$$

The term “standard co-ordinates” is now generally adopted to denote the co-ordinates of a star on a plate which fulfils the following conditions :—

- (i.) The plate truly centred and oriented for 1900.0.
- (ii.) No refraction and aberration.
- (iii.) A suitable unit of length adopted.

If (A, D) are R.A. and Declination of the plate centre, and (α, δ) those of a star, we have

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta, \\ \eta &= k \tan (\theta - D), \\ \tan \theta &= \sec (\alpha - A) \tan \delta \text{ and } k = 687.549.\end{aligned}$$

In zones not too near the pole, we may transform these into approximate formulæ as follows :—

Let

$$\begin{aligned}X &= \alpha - A \text{ in units of } 20'' \text{ sec.}, \\ Y &= \delta - D \text{ in units of } 300''.\end{aligned}$$

Then, with sufficient accuracy in zone -18° , we have

$$\eta = Y + \left(\frac{1}{4} \mu \sin 2D\right) \cdot X^2 + \frac{1}{6} \mu^2 (2Y^3 + 3X^2 \cdot Y \cos 2D),$$

where

$$\mu = 1/k = .00145444.$$

The value of the term $\frac{1}{4} \mu \sin 2D \cdot X^2$ is given in Table I. for $D = -18^\circ$ and for different values of X (since the formulæ are the same for equal declinations N . and S . of the equator, D is to have its numerical value, the minus sign being ignored in these formulæ).

The small term $\frac{1}{6} \mu (2Y^3 + 3X^2 \cdot Y \cos 2D)$ is given in Table II.

Hence we have

$$\begin{aligned} \eta &= Y + \text{Table I.} + \text{Table II.}, \\ Y &= \eta - \text{Table I.} - \text{Table II.} \end{aligned}$$

When X is known, therefore, we can obtain η from Y or Y from η .

To get ξ from X or X from ξ , tables have been prepared in the present volume for two alternative methods, one with and one without logarithms.

(i.) With logarithms—we have

$$\begin{aligned} \xi &= \tan (\alpha - A) \cdot \{ \sin D \cdot (k \cot D - \eta) \} \quad . \quad . \quad . \quad (1) \\ \text{or} \quad \xi &= X \left(1 + \frac{1}{3} \mu^2 \cdot X^2 \right) \cdot \{ \mu \cos D \cdot \tan D_0 (k \cot D_0 - \eta) \} \quad . \quad . \quad . \quad (2) \end{aligned}$$

Consider (1). We have for $D = 18^\circ$

$$\log \{ \sin D \cdot (k \cot D - \eta) \} = \log \sin 18^\circ + \log (2116.058 - \eta).$$

Now if for $\log (2116.058 - \eta)$ we write $\log (2116.100 - \eta)$, we can read the values of this term for $\eta = 0.0, 0.1$, etc., from the tables without interpolation: let D_0 represent the corresponding value of D , and we have

$$\sin D (k \cot D - \eta) = \sin D \cdot \frac{k \cot D - \eta}{k \cot D_0 - \eta} (k \cot D_0 - \eta),$$

in the fractional term of which we may give η its mean value, zero, to a very close approximation, hence we get (2).

Table V. gives the values of $\log (1 + \frac{1}{3} \mu^2 \cdot X^2)$.

Table III. gives the values of $[\text{const.} + \log \{ \mu \cos D \cdot \tan D_0 (k \cot D_0 - \eta) \}]$ for multiples of 0.1 , and Table IV. gives the corrections for the fractional part of η beyond the first decimal place. Thus we have

$$\log \xi = \log X + \text{Table III.} + \text{Table IV.} + \text{Table V.}$$

(ii.) Without logarithms.—When X is constant we have $\xi = M - N \cdot \eta$, so that differences in η are constant. When η is constant we have $\xi = MX (1 + \frac{1}{3}\mu^2 \cdot X^2)$, so that the differences are not quite uniform; but if we have a sufficiently extended table for X we can safely interpolate. This calculation is provided for in Tables IX. and X., in which it is to be noted the above formula has been transformed from (X, η) to (X, Y) .

As an example take the star Washington 8814, whose standard co-ordinates are given on p. 191.

		R.A.	Declination.
Washington 8814		$23^h 55^m 55^s.23$	$-17^\circ 22' 58''.4$ (1900)
		$X = -12.2385$	$Y = -7.4053$
Y	$= -$	7.4053	
Table I.	$= +$	320	
Table II.	$= -$	12	
		<hr/>	
$\eta = \text{sum}$	$= -$	7.3745	
$\eta' = 13 + \eta = +$		5.6255	
		<hr/>	
		$\log X$	$= 11.087728$
		Table III.	$= 9.979681$
		Table IV.	$= 36$
		Table V.	$= 46$
		<hr/>	
		$\log \xi = \text{sum}$	$= 1.067491$
			$\xi = -11.6813$
		$\xi' = 13 + \xi = +$	1.3187

By the second method we refer to Table IX., since Y is negative, which is headed $\xi = X - \frac{1}{30} X - \frac{1}{110} X$ —following table, hence we have

$$\begin{array}{rcl}
 & X = & -12.2385 \\
 - \frac{1}{30} X = & + & .4079 \\
 - \frac{1}{110} X = & + & .1113 \\
 \text{—Table} = & + & .381 \\
 \hline
 \xi = & & -11.6812
 \end{array}$$

To obtain R.A. and Declination from the measures. First form the standard co-ordinates by means of the formulæ

$$\begin{aligned}
 \xi &= x - 13 - Ax - By - C, \\
 \eta &= y - 13 - Dx - Ey - F.
 \end{aligned}$$

Then by the first method we have

$$\log X = \log \xi + \text{Table VI.} + \text{Table VII.} + \text{Table VIII.},$$

where Tables VI., VII., VIII. correspond to Tables V., III., IV., respectively, and are to be similarly used.

With the value of X so obtained we can form η —Table I., and so obtain a sufficiently approximate value of Y to enter Table II.

As an example take the same star as before, viz. Hyderabad 26, on the first plate in the present volume.

x	$=$	1.515		y	$=$	5.140
$-Ax$	$=+$	.039		$-Dx$	$=+$	.007
$-By$	$=-$	.025		$-Ey$	$=+$	.131
$-C$	$=-$	.212		$-F$	$=+$	.348
<hr/>				<hr/>		
ξ'	$=$	1.317		η'	$=$	5.626
ξ	$=$	-11.683		η	$=$	-7.374

$\log \xi$	$=$	1.067554
Table VI.	$=+$	11
Table VII.	$=+$	.020221
Table VIII.	$=+$	5

Table I.	$=$	- .0320
Table II.	$=+$	.0019

sum	$=$	1.087791
X	$=$	-12.2403
	$=$	4 ^m 48.81

Y	$=$	- 7.404
	$=$	37' 1".2.

\therefore The R.A. and Declination for 1900.0 are—

$$23^{\text{h}} \ 55^{\text{m}} \ 55^{\text{s}}.19 \qquad 17^{\circ} \ 22' \ 58''.8.$$

The small differences between these values and those given above are the differences between the Hyderabad photographic place and the Washington meridian place, and are the sum of—

- (1) Accidental or systematic errors in the meridian place.
- (2) Accidental or systematic errors in the photographic place, including the effect of (1) on the provisional constants.
- (3) Proper motion between the epochs of the two catalogues.

It is to be noted that the computation from (x, y) to (ξ', η') above is made to only three places. With the large scale value which has been inevitable with the Hyderabad plates it would require a little care to go to the fourth place accurately, and since the measures are only made to three places, the extra labour is scarcely justified, and will seldom make a difference of as much as one unit in the third place.

By the second method the computation for X is as follows :—

At the head of Table XI. we find $X = \xi + \frac{1}{30} \cdot \xi + \frac{1}{100} \cdot \xi$ + following table.

$$\begin{array}{rcl} \xi & = & -11.6830 \\ \frac{1}{30} \xi & = & .3894 \\ \frac{1}{100} \xi & = & .1168 \\ \text{Table XI.} & = & .0510 \end{array}$$

$$X = -12.2402$$

Small differences of one or two units in the fourth place, when different methods are used, are unavoidable, and may be neglected.

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HYDERABAD ASTROGRAPHIC CATALOGUE

T A B L E S

FOR THE CONVERSION OF

R.A. AND DEC. INTO STANDARD CO-ORDINATES

AND OF

STANDARD CO-ORDINATES INTO R.A. AND DEC.

FOR PLATES WITH CENTRES IN

DEC. -18°

BOTH WITH AND WITHOUT LOGARITHMS

TABLE I.—For $D = -18^\circ$.

$$\Delta_1 Y = \frac{\mu}{4} \sin 2D. X^2 = .0002137 X^2.$$

Always additive to Y to get η . Always subtractive from η to get Y.

$\Delta_2 Y$ is given in Table II.

X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$
0.0-0.4	.0000	4.0	.0034	7.7	.0127	11.4	.0278
0.5	.0001	4.1	.0036	7.8	.0130	11.5	.0283
0.6	.0001	4.2	.0038	7.9	.0133	11.6	.0288
0.7	.0001	4.3	.0040	8.0	.0137	11.7	.0293
0.8	.0001	4.4	.0041	8.1	.0140	11.8	.0298
0.9	.0002	4.5	.0043	8.2	.0144	11.9	.0303
1.0	.0002	4.6	.0045	8.3	.0147	12.0	.0308
1.1	.0003	4.7	.0047	8.4	.0151	12.1	.0313
1.2	.0003	4.8	.0049	8.5	.0154	12.2	.0318
1.3	.0004	4.9	.0051	8.6	.0158	12.3	.0323
1.4	.0004	5.0	.0053	8.7	.0162	12.4	.0329
1.5	.0005	5.1	.0056	8.8	.0166	12.5	.0334
1.6	.0006	5.2	.0058	8.9	.0169	12.6	.0339
1.7	.0006	5.3	.0060	9.0	.0173	12.7	.0345
1.8	.0007	5.4	.0062	9.1	.0177	12.8	.0350
1.9	.0008	5.5	.0065	9.2	.0181	12.9	.0356
2.0	.0009	5.6	.0067	9.3	.0185	13.0	.0361
2.1	.0009	5.7	.0070	9.4	.0189	13.1	.0367
2.2	.0010	5.8	.0072	9.5	.0193	13.2	.0373
2.3	.0011	5.9	.0074	9.6	.0197	13.3	.0378
2.4	.0012	6.0	.0077	9.7	.0201	13.4	.0384
2.5	.0013	6.1	.0080	9.8	.0205	13.5	.0390
2.6	.0015	6.2	.0082	9.9	.0209	13.6	.0395
2.7	.0016	6.3	.0085	10.0	.0214	13.7	.0401
2.8	.0017	6.4	.0088	10.1	.0218	13.8	.0407
2.9	.0018	6.5	.0090	10.2	.0222	13.9	.0413
3.0	.0019	6.6	.0093	10.3	.0227	14.0	.0419
3.1	.0021	6.7	.0096	10.4	.0231	14.1	.0425
3.2	.0022	6.8	.0099	10.5	.0236	14.2	.0431
3.3	.0023	6.9	.0102	10.6	.0240	14.3	.0437
3.4	.0025	7.0	.0105	10.7	.0245	14.4	.0443
3.5	.0026	7.1	.0108	10.8	.0249	14.5	.0449
3.6	.0028	7.2	.0111	10.9	.0254	14.6	.0456
3.7	.0029	7.3	.0114	11.0	.0259	14.7	.0462
3.8	.0031	7.4	.0117	11.1	.0263	14.8	.0468
3.9	.0033	7.5	.0120	11.2	.0268	14.9	.0475
		7.6	.0123	11.3	.0273	15.0	.0481

TABLE II.—For $D = -18^\circ$.

$$\Delta_2 Y = \frac{1}{6} \mu^2 (2Y^3 + 3X^2 Y \cos 2D) = 0.00000705 Y^3 + 0.00000856 X^2 Y.$$

Additive to Y with same sign as Y to get η . Additive to η with opposite sign to η to get Y.

Y. or η .	X.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	10.5.	11.	11.5.	12.	12.5.	13.	13.5.	14.	14.5.	X. Y. or η .
R.I.		Unit=0.001 of a Reseau Interval.																				R.I.
0.5		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0.5
1.0		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	1.0
1.5		0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	2	3	3	1.5
2.0		0	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	3	4	2.0
2.5		0	0	0	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	5	2.5
3.0		0	0	0	0	1	1	1	1	2	2	3	3	3	4	4	4	4	5	5	6	3.0
3.5		0	0	0	1	1	1	1	2	2	3	3	4	4	4	5	5	5	6	6	7	3.5
4.0		0	0	1	1	1	1	2	2	3	3	4	4	5	5	5	6	6	7	7	8	4.0
4.5		1	1	1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	4.5
5.0		1	1	1	1	2	2	2	3	4	4	5	6	6	6	7	8	8	9	9	10	5.0
5.5		1	1	1	2	2	2	3	3	4	5	6	6	7	7	8	8	9	10	10	11	5.5
6.0		2	2	2	2	2	3	3	4	5	6	7	7	8	8	9	9	10	11	12	12	6.0
6.5		2	2	2	2	3	3	4	5	5	6	7	8	9	9	10	11	11	12	13	14	6.5
7.0		2	2	3	3	3	4	5	5	6	7	8	9	10	10	11	12	12	13	14	15	7.0
7.5		3	3	3	4	4	5	5	6	7	8	9	10	11	11	12	13	14	15	15	16	7.5
8.0		4	4	4	4	5	5	6	7	8	9	10	11	12	13	13	14	15	16	17	18	8.0
8.5		4	4	5	5	5	6	7	8	9	10	12	12	13	14	15	16	17	17	18	20	8.5
9.0		5	5	5	6	6	7	8	9	10	11	13	14	14	15	16	17	18	19	20	21	9.0
9.5		6	6	6	7	7	8	9	10	11	13	14	15	16	17	18	19	20	21	22	23	9.5
10.0		7	7	7	8	8	9	10	11	12	14	16	16	17	18	19	20	21	23	24	25	10.0
10.5		8	8	9	9	10	10	11	13	14	15	17	18	19	20	21	22	23	24	26	27	10.5
11.0		9	9	10	10	11	12	13	14	15	17	19	20	21	22	23	24	25	26	28	29	11.0
11.5		11	11	11	12	12	13	14	16	17	19	20	21	23	24	25	26	27	29	30	31	11.5
12.0		12	12	13	13	14	15	16	17	19	20	22	23	25	26	27	28	29	31	32	34	12.0
12.5		14	14	14	15	15	16	18	19	21	22	24	25	27	28	29	30	32	33	35	36	12.5
13.0		15	16	16	16	17	18	19	21	23	24	27	28	29	30	31	33	34	36	37	39	13.0

*All Zones.*For $D = -18^\circ$.

TABLE V.

$$\frac{1}{3} \mu^2 \log_{10} e \times X^2 = .000000306 X^2.$$

Add to log. X (with Tables III., IV.)
to get log. ξ .

X.	.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.
1	0	0	0	1	1	1	1	1	1	1
2	1	1	1	2	2	2	2	2	2	3
3	3	3	3	3	4	4	4	4	4	5
4	5	5	5	6	6	6	6	7	7	7
5	8	8	8	9	9	9	10	10	10	11
6	11	11	12	12	13	13	13	14	14	15
7	15	15	16	16	17	17	18	18	19	19
8	20	20	21	21	22	22	23	23	24	24
9	25	25	26	26	27	28	28	29	29	30
10	31	31	32	32	33	34	34	35	36	36
11	37	38	38	39	40	40	41	42	43	43
12	44	45	46	46	47	48	49	49	50	51
13	52	53	53	54	55	56	57	57	58	59
14	60	61	62	63	63	64	65	66	67	68
15	69	70	71	72	73	73	74	75	76	77

Unit = .000001.

TABLE VI.

$$\text{Const.} - \frac{1}{3} \mu^2 \log_{10} e \cdot \sec^2 D \cdot \xi^2 \\ = .000057 - .000000339 \xi^2.$$

Add to log. ξ to get log. X.

ξ .	.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.
0	57	57	57	57	57	57	57	57	57	57
1	57	57	57	56	56	56	56	56	56	56
2	56	56	55	55	55	55	55	55	54	54
3	54	54	54	53	53	53	53	52	52	52
4	52	51	51	51	50	50	50	50	49	49
5	49	48	48	47	47	47	46	46	46	45
6	45	44	44	44	43	43	42	42	41	41
7	40	40	39	39	38	38	37	37	36	36
8	35	35	34	34	33	33	32	31	31	30
9	30	29	28	28	27	26	26	25	24	24
10	23	22	22	21	20	20	19	18	17	17
11	16	15	15	14	13	12	11	11	10	9
12	8	7	6	6	5	4	3	2	1	1

Unit = .000001.

TABLE IX.—For D = - 18°.

Y Negative.

 $\xi = X - \frac{1}{30}X - \frac{1}{110}X$ - following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
-13.0	0007	0014	0020	0027	0033	0040	0046	0051	0057	0062	0067	0071	0075	0079	0082	-13.0
-12.9	0007	0014	0022	0028	0035	0042	0049	0055	0061	0067	0072	0077	0081	0085	0089	-12.9
8	008	015	023	030	038	045	052	058	065	071	077	082	087	092	096	8
7	008	016	024	032	040	048	055	062	069	076	082	088	093	098	102	7
6	009	017	026	034	042	050	058	066	073	080	087	093	099	104	109	6
5	009	018	027	036	044	053	061	069	077	085	092	098	105	111	116	5
4	010	019	028	038	047	056	064	073	081	089	097	104	110	117	122	4
3	010	020	030	039	049	058	068	076	185	094	102	109	116	123	129	3
2	010	021	031	041	051	061	071	080	089	098	106	114	122	129	136	2
1	011	021	032	043	053	064	074	084	093	103	111	120	128	136	143	1
-12.0	011	022	034	045	056	066	077	087	097	107	116	125	134	142	150	-12.0
-11.9	0012	0023	0035	0046	0058	0069	0080	0091	0101	0112	0121	0131	0140	0148	0156	-11.9
8	012	024	036	048	060	072	083	094	105	116	126	136	145	155	163	8
7	013	025	038	050	062	074	086	098	109	121	131	141	151	161	170	7
6	013	026	039	052	065	077	090	102	113	125	136	147	157	167	176	6
5	014	027	040	054	067	080	093	105	118	130	141	152	163	174	183	5
4	014	028	042	056	069	083	096	109	122	134	146	158	169	180	190	4
3	014	029	043	057	071	085	099	112	126	139	151	163	175	186	197	3
2	015	030	044	059	074	088	102	116	130	143	156	168	180	192	204	2
1	015	030	046	061	076	091	105	120	134	148	161	174	186	199	210	1
-11.0	016	031	047	063	078	093	108	123	138	152	166	179	192	205	217	-11.0
-10.9	0016	0032	0048	0064	0080	0096	0112	0127	0142	0157	0171	0185	0198	0211	0224	-10.9
8	017	033	050	066	083	099	115	130	146	161	176	190	204	218	230	8
7	017	034	051	068	085	102	118	134	150	166	181	195	210	224	237	7
6	018	035	052	070	087	104	121	138	154	170	186	201	216	230	244	6
5	018	036	054	072	089	107	124	141	158	174	191	206	222	236	251	5
4	018	037	055	073	092	110	127	145	162	179	196	212	227	243	257	4
3	019	038	056	075	094	112	130	148	166	183	200	217	233	249	264	3
2	019	039	058	077	096	115	134	152	170	188	205	222	239	255	271	2
1	020	040	059	079	098	118	137	156	174	192	210	228	245	262	278	1
-10.0	020	040	061	081	100	120	140	159	178	197	215	233	251	268	284	-10.0
-9.9	0021	0041	0062	0082	0103	0123	0143	0163	0182	0201	0220	0238	0256	0274	0291	-9.9
8	021	042	063	084	105	126	146	166	186	206	225	244	262	280	298	8
7	022	043	065	086	107	128	149	170	190	210	230	249	268	287	305	7
6	022	044	066	088	110	131	152	174	194	215	235	255	274	293	311	6
5	022	045	067	090	112	134	156	177	198	219	240	260	280	299	318	5
4	023	046	069	091	114	137	159	181	202	224	245	266	286	306	325	4
3	023	047	070	093	116	139	162	184	206	228	250	271	292	312	332	3
2	024	048	071	095	118	142	165	188	210	233	255	276	297	318	338	2
1	024	048	073	097	121	145	168	192	215	237	260	282	303	324	345	1
-9.0	025	049	074	099	123	147	171	195	219	242	265	287	309	331	352	-9.0
-8.9	0025	0050	0075	0100	0125	0150	0175	0199	0223	0246	0270	0292	0315	0337	0359	-8.9
8	026	051	077	102	128	153	178	202	227	251	275	298	321	343	365	8
7	026	052	078	104	130	156	181	206	231	255	280	303	327	350	372	7
6	027	053	080	106	132	158	184	210	235	260	285	309	333	356	379	6
5	027	054	081	108	134	161	187	213	239	264	290	314	338	362	386	5
4	028	055	082	109	136	164	190	217	243	269	295	320	344	369	393	4
3	028	056	084	111	139	166	193	220	247	273	299	325	350	375	399	3
2	028	057	085	113	141	169	196	224	251	278	304	330	356	381	406	2
1	029	058	086	115	143	172	200	228	255	282	309	336	362	388	413	1
-8.0	029	058	088	117	145	174	203	231	259	287	314	341	368	394	420	-8.0

TABLE IX. *continued.*—For $D = -18^\circ$.

Y Negative.

 $\xi = X - \frac{1}{30} X - \frac{1}{110} X$ — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
— 7.9	0030	0059	0089	0118	0148	0177	0206	0235	0263	0291	0319	0346	0373	0400	0426	— 7.9
8	030	060	090	120	150	180	209	238	267	296	324	352	379	406	433	8
7	031	061	092	122	152	182	212	242	271	300	329	357	385	413	440	7
6	031	062	093	124	154	185	216	246	275	305	334	363	391	419	446	6
5	032	063	094	126	157	188	219	249	279	309	339	368	397	425	453	5
4	032	064	096	127	159	190	222	253	284	314	344	374	403	432	460	4
3	032	065	097	129	161	193	225	256	288	318	349	379	409	438	467	3
2	033	066	098	131	163	196	228	260	292	323	354	384	414	444	474	2
1	033	066	100	133	166	199	231	264	296	327	359	390	420	451	480	1
— 7.0	034	067	101	135	168	201	234	267	300	332	364	395	426	457	487	— 7.0
— 6.9	0034	0068	0102	0136	0170	0204	0238	0271	0304	0336	0369	0400	0432	0463	0494	— 6.9
8	035	069	104	138	172	207	241	274	308	341	374	406	438	470	500	8
7	035	070	105	140	175	209	244	278	312	345	379	411	444	476	507	7
6	036	071	106	142	177	212	247	282	316	350	384	417	450	482	514	6
5	036	072	108	144	179	215	250	285	320	354	388	422	455	488	520	5
4	036	073	109	145	181	217	253	289	324	359	393	427	461	495	527	4
3	037	074	110	147	184	220	256	292	328	363	398	433	467	501	534	3
2	037	075	112	149	186	223	260	296	332	368	403	438	473	507	541	2
1	038	076	113	151	188	226	263	299	336	372	408	444	479	514	548	1
— 6.0	038	076	114	152	190	228	266	303	340	377	413	449	484	520	554	— 6.0
— 5.9	0039	0077	0116	0154	0193	0231	0269	0307	0344	0381	0418	0454	0490	0526	0561	— 5.9
8	039	078	117	156	195	234	272	310	348	386	423	460	496	532	568	8
7	040	079	118	158	197	236	275	314	352	390	428	465	502	539	574	7
6	040	080	120	160	199	239	279	317	356	395	433	471	508	545	581	6
5	040	081	121	162	202	242	282	321	360	399	438	476	514	551	588	5
4	041	082	123	163	204	244	285	325	364	404	443	481	520	558	595	4
3	041	083	124	165	206	247	288	328	368	408	448	487	526	564	602	3
2	042	084	125	167	208	250	291	332	372	413	453	492	531	570	608	2
1	042	084	127	169	211	252	294	335	376	417	458	498	537	576	615	1
— 5.0	043	085	128	171	213	255	297	339	381	422	463	503	543	583	622	— 5.0
— 4.9	0043	0086	0129	0172	0215	0258	0300	0343	0385	0426	0468	0508	0549	0589	0628	— 4.9
8	044	087	131	174	217	261	304	346	389	431	472	514	555	595	635	8
7	044	088	132	176	220	263	307	350	393	435	477	519	560	602	642	7
6	045	089	133	178	222	266	310	353	397	440	482	525	566	608	649	6
5	045	090	135	180	224	269	313	357	401	444	487	530	572	614	655	5
4	045	091	136	181	226	271	316	361	405	449	492	535	578	620	662	4
3	046	092	137	183	229	274	319	364	409	453	497	541	584	627	669	3
2	046	093	139	185	231	277	322	368	413	458	502	546	590	633	676	2
1	047	094	140	187	233	280	326	371	417	462	507	552	596	639	682	1
— 4.0	047	094	142	188	235	282	329	375	421	467	512	557	601	646	689	— 4.0
— 3.9	0048	0095	0143	0190	0238	0285	0332	0378	0425	0471	0517	0562	0607	0652	0696	— 3.9
8	048	096	144	192	240	288	335	382	429	476	522	568	613	658	703	8
7	049	097	146	194	242	290	338	386	433	480	527	573	619	665	709	7
6	049	098	147	196	244	293	341	389	437	485	532	579	625	671	716	6
5	050	099	148	198	247	296	344	393	441	489	537	584	631	677	723	5
4	050	100	150	199	249	298	348	396	445	494	542	589	637	683	730	4
3	050	101	151	201	251	301	351	400	449	498	547	595	642	690	736	3
2	051	102	152	203	253	304	354	404	453	503	552	600	648	696	743	2
1	051	102	154	205	256	306	357	407	457	507	557	605	654	702	750	1
— 3.0	052	103	155	206	258	309	360	411	461	512	561	611	660	709	757	— 3.0

TABLE IX. *continued.*—For $D = -18^\circ$.**Y Negative.**

$$\xi = X - \frac{1}{30} X - \frac{1}{110} X - \text{following table.}$$

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
— 2.9	0052	0104	0156	0208	0260	0312	0363	0414	0465	0516	0566	0616	0666	0715	0763	— 2.9
8	053	105	158	210	262	314	366	418	470	521	571	622	672	721	770	8
7	053	106	159	212	265	317	370	422	474	525	576	627	677	727	777	7
6	054	107	160	214	267	320	373	425	478	530	581	632	683	734	784	6
5	054	108	162	215	269	323	376	429	482	534	586	638	689	740	790	5
4	054	109	163	217	271	325	379	432	486	539	591	643	695	746	797	4
3	055	110	164	219	274	328	382	436	490	543	596	649	701	753	804	3
2	055	110	166	221	276	331	385	440	494	548	601	654	707	759	811	2
1	056	111	167	223	278	333	388	443	498	552	606	659	712	765	817	1
— 2.0	056	112	168	224	280	336	392	447	502	557	611	665	718	772	824	— 2.0
— 1.9	0057	0113	0170	0226	0283	0339	0395	0450	0506	0561	0616	0670	0724	0778	0831	— 1.9
8	057	114	171	228	285	342	398	454	510	566	621	676	730	784	838	8
7	058	115	172	230	287	344	401	458	514	570	626	681	736	790	844	7
6	058	116	174	232	289	347	404	461	518	575	631	686	742	797	851	6
5	058	117	175	233	292	350	407	465	522	579	636	692	747	803	858	5
4	059	118	176	235	294	352	410	468	526	584	641	697	753	809	864	4
3	059	119	178	237	296	355	414	472	530	588	646	702	759	815	871	3
2	060	120	179	239	298	358	417	476	534	593	650	708	765	822	878	2
1	060	120	180	241	301	360	420	479	538	597	655	713	771	828	885	1
— 1.0	061	121	182	242	303	363	423	483	542	602	660	719	777	834	891	— 1.0
— 0.9	0061	0122	0183	0244	0305	0366	0426	0486	0546	0606	0665	0724	0782	0841	0898	— 0.9
8	062	123	185	246	307	368	429	490	550	610	670	729	788	847	905	8
7	062	124	186	248	310	371	433	494	554	615	675	735	794	853	912	7
6	062	125	187	250	312	374	436	497	558	619	680	740	800	860	918	6
5	063	126	189	251	314	377	439	501	562	624	685	746	806	866	925	5
4	063	127	190	253	316	379	442	504	567	628	690	751	812	872	932	4
3	064	128	191	255	318	382	445	508	571	633	695	756	818	878	939	3
2	064	128	193	257	321	385	448	512	575	637	700	762	823	885	945	2
1	065	129	194	259	323	387	451	515	579	642	705	767	829	891	952	1
— 0.0	0065	0130	0195	0260	0325	0390	0454	0519	0583	0646	0710	0773	0835	0897	0959	— 0.0

TABLE X.—For $D = -18^\circ$.

Y Positive.

 $\xi = X - \frac{1}{30}X - \frac{1}{70}X$ — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
+ 0.0	0013	0026	0040	0053	0066	0078	0091	0103	0115	0127	0138	0149	0160	0170	0180	+ 0.0
1	014	027	041	054	068	081	094	107	119	131	143	155	166	176	186	1
2	014	028	042	056	070	084	097	110	123	136	148	160	171	183	193	2
3	015	029	044	058	072	086	100	114	127	140	153	165	177	189	200	3
4	015	030	045	060	074	089	103	118	131	145	158	171	183	195	206	4
5	016	031	046	062	077	092	107	121	135	149	163	176	189	201	213	5
6	016	032	048	063	079	094	110	125	140	154	168	182	195	208	220	6
7	016	033	049	065	081	097	113	128	144	158	173	187	201	214	227	7
8	017	034	050	067	083	100	116	132	148	163	178	192	206	220	234	8
+ 0.9	017	034	052	069	086	103	119	136	152	167	183	198	212	227	240	+ 0.9
+ 1.0	0018	0035	0053	0071	0088	0105	0122	0139	0156	0172	0188	0203	0218	0233	0247	+ 1.0
1	018	036	054	072	090	108	126	143	160	176	193	208	224	239	254	1
2	019	037	056	074	092	111	129	146	164	181	198	214	230	245	260	2
3	019	038	057	076	095	113	132	150	168	185	203	219	236	252	267	3
4	020	039	058	078	097	116	135	154	172	190	208	225	242	258	274	4
5	020	040	060	080	099	119	138	157	176	194	213	230	247	264	281	5
6	020	041	061	081	101	122	141	161	180	199	218	235	253	271	288	6
7	021	042	062	083	104	124	144	164	184	203	222	241	259	277	294	7
8	021	043	064	085	106	127	148	168	188	208	227	246	265	283	301	8
+ 1.9	022	044	065	087	108	130	151	172	192	212	232	252	271	290	308	+ 1.9
+ 2.0	0022	0044	0066	0089	0110	0132	0154	0175	0196	0217	0237	0257	0277	0296	0314	+ 2.0
1	023	045	068	090	113	135	157	179	200	221	242	262	282	302	321	1
2	023	046	069	092	115	138	160	182	204	226	247	268	288	308	328	2
3	024	047	071	094	117	140	163	186	208	230	252	273	294	315	335	3
4	024	048	072	096	119	143	166	190	212	235	257	279	300	321	342	4
5	024	049	073	098	122	146	170	193	216	239	262	284	306	327	348	5
6	025	050	075	099	124	148	173	197	220	244	267	289	312	334	355	6
7	025	051	076	101	126	151	176	200	224	248	272	295	318	340	362	7
8	026	052	077	103	128	154	179	204	228	253	277	300	323	346	368	8
+ 2.9	026	052	079	105	131	156	182	207	232	257	282	306	329	352	375	+ 2.9
+ 3.0	0027	0053	0080	0106	0133	0159	0185	0211	0237	0262	0287	0311	0335	0359	0382	+ 3.0
1	027	054	081	108	135	162	188	215	241	266	292	316	341	365	389	1
2	028	055	083	110	137	165	192	218	245	271	296	322	347	371	395	2
3	028	056	084	112	140	167	195	222	249	275	301	327	353	378	402	3
4	028	057	085	114	142	170	198	225	253	280	306	333	358	384	409	4
5	029	058	087	116	144	173	201	229	257	284	311	338	364	390	416	5
6	029	059	088	117	146	175	204	233	261	289	316	343	370	397	422	6
7	030	060	090	119	149	178	207	236	265	293	321	349	376	403	429	7
8	030	061	091	121	151	181	210	240	269	298	326	354	382	409	436	8
+ 3.9	031	062	092	123	153	184	214	243	273	302	331	360	388	416	443	+ 3.9
+ 4.0	0031	0062	0094	0124	0155	0186	0217	0247	0277	0307	0336	0365	0393	0422	0449	+ 4.0
1	032	063	095	126	158	189	220	250	281	311	341	370	399	428	456	1
2	032	064	096	128	160	192	223	254	285	316	346	376	405	434	463	2
3	033	065	098	130	162	194	226	258	289	320	351	381	411	440	469	3
4	033	066	099	132	164	197	229	261	293	325	356	386	417	447	476	4
5	034	067	100	134	167	200	232	265	297	329	361	392	423	453	483	5
6	034	068	102	135	169	202	236	268	301	334	366	397	428	459	490	6
7	034	069	103	137	171	205	239	272	305	338	371	403	434	466	496	7
8	035	070	104	139	173	208	242	276	309	343	376	408	440	472	503	8
+ 4.9	035	070	106	141	176	211	245	279	313	347	381	414	446	478	510	+ 4.9

TABLE X. *continued.*—For $D = -18^\circ$.

Y Positive.

 $\xi = X - \frac{1}{30} X - \frac{1}{70} X$ — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
+ 5.0	0036	0071	0107	0142	0178	0213	0248	0283	0318	0352	0385	0419	0452	0485	0517	+ 5.0
1	036	072	108	144	180	216	251	286	322	356	390	424	458	491	523	1
2	037	073	110	146	182	219	254	290	326	361	395	430	464	497	530	2
3	037	074	111	148	185	221	258	294	330	365	400	435	469	504	537	3
4	038	075	112	150	187	224	261	297	334	370	405	440	475	510	544	4
5	038	076	114	152	189	227	264	301	338	374	410	446	481	516	550	5
6	038	077	115	153	191	229	267	304	342	379	415	451	487	522	557	6
7	039	078	116	155	194	232	270	308	346	383	420	457	493	529	564	7
8	039	078	118	157	196	235	273	312	350	388	425	462	499	535	570	8
+ 5.9	040	079	119	159	198	237	276	315	354	392	430	467	504	541	577	+ 5.9
+ 6.0	0040	0080	0120	0160	0200	0240	0280	0319	0358	0397	0435	0473	0510	0548	0584	+ 6.0
1	041	081	122	162	203	243	283	322	362	401	440	478	516	554	591	1
2	041	082	123	164	205	246	286	326	366	406	445	484	522	560	598	2
3	042	083	124	166	207	248	289	330	370	410	450	489	528	566	604	3
4	042	084	126	168	209	251	292	333	374	415	455	494	534	573	611	4
5	042	085	127	170	212	254	295	337	378	419	460	500	540	579	618	5
6	043	086	129	171	214	256	298	340	382	424	465	505	545	585	624	6
7	043	087	130	173	216	259	302	344	386	428	470	510	551	592	631	7
8	044	088	131	175	218	262	305	348	390	433	475	516	557	598	638	8
+ 6.9	044	088	133	177	221	264	308	351	394	437	480	521	563	604	645	+ 6.9
+ 7.0	0045	0089	0134	0178	0223	0267	0311	0355	0398	0442	0484	0527	0569	0610	0651	+ 7.0
1	045	090	135	180	225	270	314	358	402	446	489	532	575	617	658	1
2	046	091	137	182	227	272	317	362	406	451	494	537	580	623	665	2
3	046	092	138	184	230	275	321	366	410	455	499	543	586	629	672	3
4	046	093	139	186	232	278	324	369	414	460	504	548	592	636	678	4
5	047	094	141	187	234	281	327	373	419	464	509	554	598	642	685	5
6	047	095	142	189	236	283	330	376	423	468	514	559	604	648	692	6
7	048	096	143	191	238	286	333	380	427	473	519	564	610	654	699	7
8	048	096	145	193	241	289	336	384	431	477	524	570	615	661	705	8
+ 7.9	049	097	146	195	243	291	339	387	435	482	529	575	621	667	712	+ 7.9
+ 8.0	0049	0098	0147	0196	0245	0294	0343	0391	0439	0486	0534	0581	0627	0673	0719	+ 8.0
1	050	099	149	198	248	297	346	394	443	491	539	586	633	680	726	1
2	050	100	150	200	250	300	349	398	447	495	544	591	639	686	732	2
3	051	101	152	202	252	302	352	402	451	500	549	597	645	692	739	3
4	051	102	153	204	254	305	355	405	455	504	554	602	650	698	746	4
5	052	103	154	205	256	308	358	409	459	509	559	608	656	705	753	5
6	052	104	156	207	259	310	362	412	463	513	564	613	662	711	759	6
7	052	105	157	209	261	313	365	416	467	518	569	618	668	717	766	7
8	053	106	158	211	263	316	368	420	471	522	573	624	674	724	773	8
+ 8.9	053	106	160	213	266	318	371	423	475	527	578	629	680	730	780	+ 8.9
+ 9.0	0054	0107	0161	0214	0268	0321	0374	0427	0479	0531	0583	0635	0686	0736	0786	+ 9.0
1	054	108	162	216	270	324	377	430	483	536	588	640	692	743	793	1
2	055	109	164	218	272	326	380	434	487	540	593	645	697	749	800	2
3	055	110	165	220	274	329	384	438	491	545	598	651	703	755	807	3
4	056	111	166	222	277	332	387	441	496	549	603	656	709	762	813	4
5	056	112	168	223	279	334	390	445	500	554	608	662	715	768	820	5
6	056	113	169	225	281	337	393	448	504	558	613	667	721	774	827	6
7	057	114	170	227	283	340	396	452	508	563	618	672	726	780	834	7
8	057	114	172	229	286	343	399	456	512	567	623	678	732	787	840	8
+ 9.9	058	115	173	231	288	345	402	459	516	572	628	683	738	793	847	+ 9.9

TABLE X. *continued.*—For $D = -18^\circ$.

Y Positive.

 $\xi = X - \frac{1}{30} X - \frac{1}{70} X$ — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
+10.0	0058	0116	0174	0232	0290	0348	0406	0463	0520	0576	0633	0688	0744	0799	0854	+10.0
1	059	117	176	234	292	351	409	466	524	581	638	694	750	806	860	1
2	059	118	177	236	295	353	412	470	528	585	643	699	756	812	867	2
3	060	119	178	238	297	356	415	474	532	590	648	705	762	818	874	3
4	060	120	180	240	299	359	418	477	536	594	652	710	767	824	881	4
5	060	121	181	241	301	362	421	481	540	599	657	716	773	831	888	5
6	061	122	182	243	304	364	424	484	544	603	662	721	779	837	894	6
7	061	123	184	245	306	367	428	488	548	608	667	726	785	844	901	7
8	062	124	185	247	308	370	431	491	552	612	672	732	791	850	908	8
+10.9	062	124	187	249	310	372	434	495	556	617	677	737	797	856	914	+10.9
+11.0	0063	0125	0188	0250	0313	0375	0437	0499	0560	0621	0682	0742	0802	0862	0921	+11.0
1	063	126	189	252	315	378	440	502	564	626	687	748	808	868	928	1
2	064	127	191	254	317	380	443	506	568	630	692	753	814	875	935	2
3	064	128	192	256	319	383	446	510	572	635	697	759	820	881	942	3
4	064	129	193	258	322	386	450	513	576	639	702	764	826	887	948	4
5	065	130	195	259	324	388	453	517	580	644	707	769	832	894	955	5
6	065	131	196	261	326	391	456	520	584	648	712	775	837	900	962	6
7	066	132	197	263	328	394	459	524	588	653	717	780	843	906	968	7
8	066	132	199	265	331	396	462	527	592	657	722	786	849	912	975	8
+11.9	067	133	200	267	333	399	465	531	597	662	727	791	855	919	982	+11.9
+12.0	0067	0134	0201	0268	0335	0402	0468	0535	0601	0666	0732	0796	0861	0925	0989	+12.0
1	068	135	203	270	337	405	472	538	605	671	737	802	867	931	995	1
2	068	136	204	272	340	407	475	542	609	675	742	807	873	938	1002	2
3	069	137	205	274	342	410	478	545	613	680	746	813	878	944	1009	3
4	069	138	207	276	344	413	481	549	617	684	751	818	884	950	1016	4
5	069	139	208	277	346	415	484	553	621	689	756	823	890	957	1022	5
6	070	140	210	279	349	418	487	556	625	693	761	829	896	963	1029	6
7	070	141	211	281	351	421	490	560	629	698	766	834	902	969	1036	7
8	071	142	212	283	353	424	494	563	633	702	771	840	908	976	1043	8
+12.9	071	142	214	284	355	426	497	567	637	707	776	845	913	982	1049	+12.9
+13.0	0072	0143	0215	0286	0358	0429	0500	0570	0641	0711	0781	0850	0919	0988	1056	+13.0

TABLE XI.—For $D = -18^\circ$. η Negative. $X = \xi + \frac{1}{30}\xi + \frac{1}{100}\xi + \text{following table.}$

$\xi.$ $\eta.$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi.$ $\eta.$
—13.0	0017	0034	0051	0068	0084	0101	0117	0133	0148	0163	0177	0191	0204	—13.0
—12.9	0018	0035	0053	0070	0087	0104	0120	0136	0152	0168	0183	0197	0211	—12.9
8	018	036	054	072	089	107	124	140	157	173	188	203	217	8
7	019	037	056	074	092	110	127	144	161	178	193	209	223	7
6	019	038	057	076	094	113	131	148	166	182	199	215	230	6
5	020	039	058	078	097	116	134	152	170	187	204	221	236	5
4	020	040	060	080	099	118	138	156	174	192	210	226	242	4
3	020	041	061	082	102	121	141	160	179	197	215	232	249	3
2	021	042	063	084	104	124	144	164	183	202	220	238	255	2
1	021	043	064	086	107	127	148	168	188	207	226	244	262	1
—12.0	022	044	066	088	109	130	151	172	192	212	231	250	268	—12.0
—11.9	0022	0045	0067	0090	0112	0133	0155	0176	0197	0217	0237	0256	0275	—11.9
8	023	046	069	092	114	136	158	180	201	222	242	262	281	8
7	023	047	070	094	116	139	162	184	205	227	248	268	287	7
6	024	048	072	095	119	142	165	188	210	232	253	274	294	6
5	024	049	073	097	121	145	168	192	214	236	258	280	300	5
4	025	050	075	099	124	148	172	196	219	241	264	285	306	4
3	025	051	076	101	126	151	175	199	223	246	269	291	313	3
2	026	052	078	103	129	154	179	203	228	251	274	297	319	2
1	026	053	079	105	131	157	182	207	232	256	280	303	326	1
—11.0	027	054	081	107	134	160	186	211	236	261	285	309	332	—11.0
—10.9	0027	0055	0082	0109	0136	0163	0189	0215	0241	0266	0291	0315	0338	—10.9
8	028	056	084	111	139	166	193	219	245	271	296	321	345	8
7	028	057	085	113	141	169	196	223	250	276	302	327	351	7
6	029	058	086	115	144	172	200	227	254	281	307	333	358	6
5	029	059	088	117	146	175	203	231	258	286	312	339	364	5
4	030	060	089	119	148	178	206	235	263	291	318	344	370	4
3	030	061	091	121	151	180	210	239	267	296	323	350	377	3
2	031	062	092	123	153	183	213	243	272	300	329	356	383	2
1	031	063	094	125	156	186	217	247	276	305	334	362	390	1
—10.0	032	064	095	127	158	189	220	251	281	310	340	368	396	—10.0
—9.9	0032	0065	0097	0129	0161	0192	0224	0254	0285	0315	0345	0374	0402	—9.9
8	033	066	098	131	163	195	227	258	290	320	350	380	409	8
7	033	067	100	133	166	198	230	262	294	325	356	386	415	7
6	034	068	101	135	168	201	234	266	298	330	361	392	422	6
5	034	068	103	137	171	204	237	270	303	335	366	398	428	5
4	035	069	104	139	173	207	241	274	307	340	372	404	434	4
3	035	070	106	141	176	210	244	278	312	345	377	410	441	3
2	036	071	107	143	178	213	248	282	316	350	383	415	447	2
1	036	072	109	145	180	216	251	286	320	355	388	421	454	1
—9.0	037	073	110	147	183	219	255	290	325	360	394	427	460	—9.0
—8.9	0037	0074	0112	0149	0185	0222	0258	0294	0329	0364	0399	0433	0466	—8.9
8	038	075	113	150	188	225	262	298	334	369	404	439	473	8
7	038	076	115	152	190	228	265	302	338	374	410	445	479	7
6	039	077	116	154	193	231	269	306	343	379	415	451	486	6
5	039	078	118	156	195	234	272	310	347	384	421	457	492	5
4	040	079	119	158	198	237	276	314	352	389	426	463	498	4
3	040	080	120	160	200	240	279	318	356	394	432	469	505	3
2	041	081	122	162	203	243	282	322	360	399	437	475	511	2
1	041	082	123	164	205	246	286	326	365	404	442	480	518	1
—8.0	042	083	125	166	208	248	289	329	369	409	448	486	524	—8.0

TABLE XI. *continued.*—For $D = -18^\circ$. η Negative. $X = \xi + \frac{1}{30} \xi + \frac{1}{100} \xi + \text{following table.}$

$\xi.$ $\eta.$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi.$ $\eta.$
— 7.9	0042	0084	0126	0168	0210	0251	0293	0333	0374	0414	0453	0492	0531	— 7.9
8	043	085	128	170	212	254	296	337	378	419	459	498	537	8
7	043	086	129	172	215	257	300	341	383	424	464	504	543	7
6	044	087	131	174	217	260	303	345	387	429	470	510	550	6
5	044	088	132	176	220	263	306	349	391	434	475	516	556	5
4	045	089	134	178	222	266	310	353	396	439	481	522	563	4
3	045	090	135	180	225	269	313	357	400	443	486	528	569	3
2	046	091	137	182	227	272	317	361	405	448	491	534	576	2
1	046	092	138	184	230	275	320	365	409	453	497	540	582	1
— 7.0	047	093	140	186	232	278	324	369	414	458	502	546	588	— 7.0
— 6.9	0047	0094	0141	0188	0235	0281	0327	0373	0418	0463	0508	0552	0595	— 6.9
8	048	095	143	190	237	284	331	377	423	468	513	558	601	8
7	048	096	144	192	240	287	334	381	427	473	518	563	608	7
6	049	097	146	194	242	290	338	385	432	478	524	569	614	6
5	049	098	147	196	245	293	341	389	436	483	529	575	620	5
4	050	099	149	198	247	296	344	393	440	488	535	581	627	4
3	050	100	150	200	250	299	348	397	445	493	540	587	633	3
2	051	101	152	202	252	302	351	400	449	498	546	593	640	2
1	051	102	153	204	254	305	355	404	454	503	551	599	646	1
— 6.0	052	103	154	206	257	308	358	408	458	508	557	605	652	— 6.0
— 5.9	0052	0104	0156	0208	0259	0311	0362	0412	0463	0513	0562	0611	0659	— 5.9
8	053	105	157	210	262	314	365	416	467	518	567	617	665	8
7	053	106	159	212	264	317	369	420	472	522	573	623	672	7
6	054	107	160	214	267	320	372	424	476	527	578	629	678	6
5	054	108	162	216	269	323	376	428	480	532	584	635	685	5
4	055	109	163	218	272	325	379	432	485	537	589	640	691	4
3	055	110	165	220	274	328	383	436	489	542	594	646	698	3
2	056	111	166	222	277	331	386	440	494	547	600	652	704	2
1	056	112	168	224	279	334	389	444	498	552	605	658	710	1
— 5.0	057	113	169	226	282	337	393	448	503	557	611	664	717	— 5.0
— 4.9	0057	0114	0171	0228	0284	0340	0396	0452	0507	0562	0616	0670	0723	— 4.9
8	058	115	172	230	287	343	400	456	512	567	622	676	730	8
7	058	116	174	232	289	346	403	460	516	572	627	682	736	7
6	059	117	175	234	292	349	407	464	520	577	633	688	742	6
5	059	118	177	236	294	352	410	468	525	582	638	694	749	5
4	060	119	178	238	296	355	414	472	529	587	644	700	755	4
3	060	120	180	239	299	358	417	476	534	592	649	706	762	3
2	061	121	181	241	301	361	421	480	538	597	654	712	768	2
1	061	122	183	243	304	364	424	484	543	602	660	718	775	1
— 4.0	062	123	184	245	306	367	428	488	547	606	665	724	781	— 4.0
— 3.9	0062	0124	0186	0247	0309	0370	0431	0492	0552	0611	0671	0729	0788	— 3.9
8	062	125	187	249	311	373	434	496	556	616	676	735	794	8
7	063	126	189	251	314	376	438	499	561	621	682	741	800	7
6	063	127	190	253	316	379	441	503	565	626	687	747	807	6
5	064	128	192	255	319	382	445	507	570	631	692	753	813	5
4	064	129	193	257	321	385	448	511	574	636	698	759	820	4
3	065	130	195	259	324	388	452	515	578	641	703	765	826	3
2	065	131	196	261	326	391	455	519	583	646	709	771	833	2
1	066	132	198	263	329	394	459	523	587	651	714	777	839	1
— 3.0	066	133	199	265	331	397	462	527	592	656	720	783	846	— 3.0

TABLE XI. *continued.*—For $D = -18^\circ$.

η Negative. $X = \xi + \frac{1}{30}\xi + \frac{1}{100}\xi + \text{following table.}$

$\xi.$ $\eta.$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi.$ $\eta.$
— 2.9	0067	0134	0201	0267	0334	0400	0466	0531	0596	0661	0725	0789	0852	— 2.9
8	067	135	202	269	336	403	469	535	601	666	731	795	858	8
7	068	136	204	271	339	406	473	539	605	671	736	801	865	7
6	068	137	205	273	341	409	476	543	610	676	742	807	871	6
5	069	138	207	275	344	412	480	547	614	681	747	813	878	5
4	069	139	208	277	346	415	483	551	618	686	752	819	884	4
3	070	140	210	279	348	418	486	555	623	691	758	825	891	3
2	070	141	211	281	351	421	490	559	627	696	763	830	897	2
1	071	142	212	283	353	424	493	563	632	701	769	836	903	1
— 2.0	071	143	214	285	356	426	497	567	636	706	774	842	910	— 2.0
— 1.9	0072	0144	0215	0287	0358	0429	0500	0571	0641	0710	0780	0848	0916	— 1.9
8	072	145	217	289	361	432	504	575	645	715	785	854	923	8
7	073	146	218	291	363	435	507	579	650	720	791	860	929	7
6	073	147	220	293	366	438	511	583	654	725	796	866	936	6
5	074	148	221	295	368	441	514	587	659	730	802	872	942	5
4	074	149	223	297	371	444	518	591	663	735	807	878	948	4
3	075	150	224	299	373	447	521	595	668	740	812	884	955	3
2	075	151	226	301	376	450	525	599	672	745	818	890	961	2
1	076	152	227	303	378	453	528	603	677	750	823	896	968	1
— 1.0	076	153	229	305	381	456	532	607	681	755	829	902	974	— 1.0
— 0.9	0077	0154	0230	0307	0383	0459	0535	0610	0686	0760	0834	0908	0981	— 0.9
8	077	155	232	309	386	462	539	614	690	765	840	914	987	8
7	078	156	233	311	388	465	542	618	694	770	845	920	0994	7
6	078	157	235	313	391	468	545	622	699	775	851	926	1000	6
5	079	158	236	315	393	471	549	626	703	780	856	932	007	5
4	079	159	238	317	396	474	552	630	708	785	862	938	013	4
3	080	160	239	319	398	477	556	634	712	790	867	944	020	3
2	080	161	241	321	401	480	559	638	717	795	872	950	026	2
1	081	162	242	323	403	483	563	642	721	800	878	956	032	1
— 0.0	0081	0163	0244	0325	0406	0486	0566	0646	0726	0805	0883	0962	1039	— 0.0

TABLE XII.—For $D = -18^\circ$. η Positive. $X = \xi + \frac{1}{20}\xi + \text{following table.}$

$\xi.$ $\eta.$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi.$ $\eta.$
+ 0.0	0015	0029	0044	0058	0072	0086	0100	0113	0126	0138	0150	0162	0172	+ 0.0
1	015	030	045	060	075	089	103	117	130	143	156	168	179	1
2	016	031	047	062	077	092	107	121	135	148	161	174	185	2
3	016	032	048	064	080	095	110	125	139	153	166	180	192	3
4	017	033	050	066	082	098	114	129	144	158	172	185	198	4
5	017	034	051	068	085	101	117	133	148	163	177	191	205	5
6	018	035	053	070	087	104	121	137	153	168	183	197	211	6
7	018	036	054	072	090	107	124	141	157	173	188	203	217	7
8	019	037	056	074	092	110	128	145	162	178	194	209	224	8
+ 0.9	019	038	057	076	095	113	131	149	166	183	199	215	230	+ 0.9
+ 1.0	0020	0039	0059	0078	0097	0116	0134	0153	0170	0188	0205	0221	0237	+ 1.0
1	020	040	060	080	100	119	138	157	175	193	210	227	243	1
2	021	041	062	082	102	122	141	161	179	198	216	233	250	2
3	021	042	063	084	105	125	145	165	184	203	221	239	256	3
4	022	043	065	086	107	128	148	169	188	208	227	245	263	4
5	022	044	066	088	110	131	152	173	193	213	232	251	269	5
6	023	045	068	090	112	134	155	176	197	218	238	257	276	6
7	023	046	069	092	114	137	159	180	202	223	243	263	282	7
8	024	047	071	094	117	140	162	184	206	228	249	269	289	8
+ 1.9	024	048	072	096	119	143	166	188	211	233	254	275	295	+ 1.9
+ 2.0	0025	0049	0074	0098	0122	0146	0169	0192	0215	0238	0260	0281	0302	+ 2.0
1	025	050	075	100	124	149	173	196	220	243	265	287	308	1
2	026	051	077	102	127	152	176	200	224	248	271	293	315	2
3	026	052	078	104	129	155	180	204	229	253	276	299	321	3
4	027	053	080	106	132	158	183	208	233	258	282	305	328	4
5	027	054	081	108	134	161	187	212	238	262	287	311	334	5
6	028	055	082	110	137	164	190	216	242	268	292	317	340	6
7	028	056	084	112	139	167	194	220	247	273	298	323	347	7
8	029	057	085	114	142	170	197	224	251	278	303	329	353	8
+ 2.9	029	058	087	116	144	173	201	228	256	282	309	335	360	+ 2.9
+ 3.0	0030	0059	0088	0118	0147	0176	0204	0232	0260	0287	0314	0341	0366	+ 3.0
1	030	060	090	120	149	179	208	236	265	292	320	347	373	1
2	031	061	091	122	152	182	211	240	269	297	325	353	379	2
3	031	062	093	124	154	185	215	244	274	302	331	359	386	3
4	032	063	094	126	157	188	218	248	278	307	336	365	392	4
5	032	064	096	128	159	191	222	252	282	312	342	370	399	5
6	033	065	097	130	162	194	225	256	287	317	347	376	405	6
7	033	066	099	132	164	197	229	260	291	322	353	382	412	7
8	034	067	100	134	167	200	232	264	296	327	358	388	418	8
+ 3.9	034	068	102	136	169	203	236	268	300	332	364	394	425	+ 3.9
+ 4.0	0035	0069	0103	0138	0172	0205	0239	0272	0305	0337	0369	0400	0431	+ 4.0
1	035	070	105	140	174	208	243	276	309	342	375	406	438	1
2	036	071	106	142	177	211	246	280	314	347	380	412	444	2
3	036	072	108	144	179	214	250	284	318	352	386	418	451	3
4	037	073	109	146	182	217	253	288	323	357	391	424	457	4
5	037	074	111	148	184	220	257	292	327	362	397	430	464	5
6	038	075	112	150	187	223	260	296	332	367	402	436	470	6
7	038	076	114	152	189	226	264	300	336	372	408	442	477	7
8	039	077	115	154	192	229	267	304	341	377	413	448	483	8
+ 4.9	039	078	117	156	194	232	271	308	345	382	419	454	490	+ 4.9

TABLE XII. *continued.*—For $D = -18^\circ$. η Positive. $X = \xi + \frac{1}{20}\xi +$ following table.

$\xi.$ $\eta.$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi.$ $\eta.$
+ 5.0	0040	0079	0118	0158	0197	0235	0274	0312	0350	0387	0424	0460	0496	+ 5.0
1	040	080	120	160	199	238	278	316	354	392	430	466	503	1
2	041	081	121	162	202	241	281	320	359	397	435	472	509	2
3	041	082	123	164	204	244	284	324	363	402	441	478	516	3
4	042	083	124	166	207	247	288	328	368	407	446	484	522	4
5	042	084	126	168	209	250	291	332	372	412	452	490	528	5
6	043	085	127	170	212	253	295	336	377	417	457	496	535	6
7	043	086	129	172	214	256	298	340	381	422	462	502	541	7
8	044	087	130	174	217	259	302	344	386	427	468	508	548	8
+ 5.9	044	088	132	176	219	262	305	348	390	432	473	514	554	+ 5.9
+ 6.0	0045	0089	0133	0178	0222	0265	0309	0352	0395	0437	0479	0520	0561	+ 6.0
1	045	090	135	180	224	268	312	356	399	442	484	526	567	1
2	046	091	136	182	227	271	316	360	404	447	490	532	574	2
3	046	092	138	184	229	274	319	364	408	452	495	538	580	3
4	047	093	139	186	232	277	323	368	413	457	501	544	587	4
5	047	094	141	188	234	280	326	372	417	462	506	550	593	5
6	048	095	142	190	237	283	330	376	422	467	512	556	600	6
7	048	096	144	192	239	286	333	380	426	472	517	562	606	7
8	049	097	145	194	242	289	337	384	431	477	523	568	613	8
+ 6.9	049	098	147	196	244	292	340	388	435	482	528	574	619	+ 6.9
+ 7.0	0050	0099	0148	0198	0247	0295	0344	0392	0440	0487	0534	0580	0626	+ 7.0
1	050	100	150	200	249	298	347	396	444	492	539	586	632	1
2	051	101	151	202	252	301	351	400	449	497	545	592	639	2
3	051	102	153	204	254	304	354	404	453	502	550	598	645	3
4	052	103	154	206	257	307	358	408	458	507	556	604	652	4
5	052	104	156	208	259	310	361	412	462	512	561	610	658	5
6	053	105	157	210	262	313	365	416	467	517	567	616	665	6
7	053	106	159	212	264	316	368	420	471	522	572	622	671	7
8	054	107	160	214	267	319	372	424	476	527	578	628	678	8
+ 7.9	054	108	162	216	269	322	375	428	480	532	583	634	684	+ 7.9
+ 8.0	0055	0109	0163	0218	0272	0325	0379	0432	0485	0537	0589	0640	0691	+ 8.0
1	055	110	165	220	274	328	382	436	489	542	594	646	698	1
2	056	111	166	222	277	331	386	440	494	547	600	652	704	2
3	056	112	168	224	279	334	389	444	498	552	605	658	711	3
4	057	113	169	226	282	337	393	448	503	557	611	664	717	4
5	057	114	171	228	284	340	396	452	507	562	616	670	724	5
6	058	115	172	230	287	343	400	456	512	567	622	676	730	6
7	058	116	174	232	289	346	403	460	516	572	627	682	737	7
8	059	117	175	234	292	349	407	464	521	577	633	688	743	8
+ 8.9	059	118	177	236	294	352	410	468	525	582	638	694	750	+ 8.9
+ 9.0	0060	0119	0178	0238	0297	0356	0414	0472	0530	0587	0644	0700	0756	+ 9.0
1	060	120	180	240	299	359	418	476	534	592	650	706	763	1
2	061	121	181	242	302	362	421	480	539	597	655	712	769	2
3	061	122	183	244	304	365	425	484	543	602	661	718	776	3
4	062	123	184	246	307	368	428	488	548	607	666	724	782	4
5	062	124	186	248	309	371	432	492	552	612	672	730	789	5
6	063	125	187	250	312	374	435	496	557	617	677	736	795	6
7	063	126	189	252	314	377	439	500	561	622	683	743	802	7
8	064	127	190	254	317	380	442	504	566	627	688	749	808	8
+ 9.9	064	128	192	256	319	383	446	508	570	632	694	755	815	+ 9.9

TABLE XII. *continued.*—For $D = -18^\circ$. η Positive. $X = \xi + \frac{1}{20} \xi + \text{following table.}$

$\xi.$ $\eta.$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi.$ $\eta.$
+10.0	0065	0129	0193	0258	0322	0386	0449	0512	0575	0637	0699	0761	0821	+10.0
1	065	130	195	260	324	389	453	516	580	642	705	767	828	1
2	066	131	196	262	327	392	456	520	584	647	710	773	834	2
3	066	132	198	264	329	395	460	524	589	652	716	779	841	3
4	067	133	199	266	332	398	463	528	593	658	721	785	847	4
5	067	134	201	268	334	401	467	532	598	663	727	791	854	5
6	068	135	202	270	337	404	470	536	602	668	732	797	860	6
7	068	136	204	272	339	407	474	540	607	673	738	803	867	7
8	069	137	205	274	342	410	477	544	611	678	743	809	873	8
+10.9	069	138	207	276	344	413	481	548	616	683	749	815	880	+10.9
+11.0	0070	0139	0208	0278	0347	0416	0484	0552	0620	0688	0754	0821	0886	+11.0
1	070	140	210	280	349	419	488	556	625	693	760	827	893	1
2	071	141	212	282	352	422	491	560	629	698	766	833	900	2
3	071	142	213	284	354	425	495	564	634	703	771	839	906	3
4	072	143	215	286	357	428	498	568	638	708	777	845	913	4
5	072	144	216	288	359	431	502	572	643	713	782	851	919	5
6	073	145	218	290	362	434	505	576	647	718	788	857	926	6
7	073	146	219	292	364	437	509	580	652	723	793	863	932	7
8	074	147	221	294	367	440	512	585	656	728	799	869	939	8
+11.9	074	148	222	296	369	443	516	589	661	733	804	875	945	+11.9
+12.0	0075	0149	0224	0298	0372	0446	0519	0593	0665	0738	0810	0881	0952	+12.0
1	075	150	225	300	374	449	523	597	670	743	815	887	958	1
2	076	151	227	302	377	452	526	601	674	748	821	893	965	2
3	076	152	228	304	380	455	530	605	679	753	826	899	971	3
4	077	153	230	306	382	458	533	609	683	758	832	905	978	4
5	077	154	231	308	385	461	537	613	688	763	837	911	984	5
6	078	155	233	310	387	464	540	617	693	768	843	917	991	6
7	078	156	234	312	390	467	544	621	697	773	848	923	998	7
8	079	157	236	314	392	470	548	625	702	778	854	929	1004	8
+12.9	079	158	237	316	395	473	551	629	706	783	859	936	1011	+12.9
+13.0	0080	0159	0239	0318	0397	0476	0555	0633	0711	0788	0865	0942	1017	+13.0

HYDERABAD ASTROGRAPHIC CATALOGUE

T A B L E S

FOR THE CONVERSION OF

MEASURED DIAMETERS OF THE STAR-IMAGES

IN

ZONE -18°

INTO

STELLAR PHOTOGRAPHIC MAGNITUDES BY
MEANS OF THE FORMULÆ

$$m = a - 1.05 \sqrt{d}$$

and

$$m = a - 1.10 \sqrt{d}$$

Table for converting Diameters (d) into Stellar Magnitudes (m) by the formula $m=a-1.05\sqrt{d}$. $a=15.1$ to 16.4 .

$a \backslash d$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	$a \backslash d$
8	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	8
9	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	9
10	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	10
11	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	11
12	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12
13	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	13
14	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	14
15	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	15
16	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	16
17	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	17
18	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	18
19	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	19
20	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	20
21	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	21
22	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	22
23	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	23
24	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	24
25	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	25
26	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	26
27	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	27
28	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	28
29	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	29
30	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	30
31	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	31
32	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	32
33	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	33
34	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	34
35	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	35
36	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	36
37	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	37
38	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	38
39	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	39
40	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	40
41	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	41
42	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	42
43	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	43
44	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	44
45	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	45
46	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	46
47	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	47
48	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	48
49	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	49
50	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	50
55	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	55
60	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	60
65	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	65
70	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	70
75	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	75
80	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	80
85	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	85
90	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	90
95	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	95
100	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	100
110	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	110
120	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	120
130	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	130
$d \backslash a$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	$d \backslash a$

Table for converting Diameters (d) into Stellar Magnitudes (m) by the formula $m=a-1.05\sqrt{d}$. $a=16.5$ to 17.8 .

$\begin{array}{c} a \\ d \end{array}$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$\begin{array}{c} a \\ d \end{array}$
8	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	8
9	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	9
10	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	10
11	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	11
12	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	12
13	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	13
14	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14
15	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	15
16	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	16
17	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	17
18	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	18
19	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	19
20	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	20
21	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	21
22	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	22
23	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	23
24	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	24
25	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	25
26	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	26
27	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	27
28	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	28
29	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	29
30	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	30
31	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	31
32	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	32
33	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	33
34	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	34
35	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	35
36	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	36
37	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	37
38	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	38
39	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	39
40	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	40
41	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	41
42	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	42
43	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	43
44	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	44
45	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	45
46	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	46
47	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	47
48	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	48
49	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	49
50	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	50
55	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	55
60	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	60
65	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	65
70	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	70
75	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	75
80	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	80
85	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	85
90	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	90
95	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	95
100	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	100
110	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	110
120	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	120
130	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	130
$\begin{array}{c} d \\ a \end{array}$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$\begin{array}{c} d \\ a \end{array}$

Table for converting Diameters (d) into Stellar Magnitudes (m) by the formula $m = a - 1.10 \sqrt{d}$. $a = 15.1$ to 16.4 .

d	a	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	a	d
8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	8		
9	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	9		
10	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	10		
11	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	11		
12	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12		
13	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	13		
14	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	14		
15	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	15		
16	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	16		
17	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	17		
18	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	18		
19	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	19		
20	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	20		
21	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	21		
22	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	22		
23	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	23		
24	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	24		
25	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	25		
26	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	26		
27	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	27		
28	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	28		
29	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	29		
30	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	30		
31	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	31		
32	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	32		
33	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	33		
34	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	34		
35	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	35		
36	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	36		
37	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	37		
38	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	38		
39	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	39		
40	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	40		
41	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	41		
42	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	42		
43	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	43		
44	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	44		
45	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	45		
46	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	46		
47	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	47		
48	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	48		
49	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	49		
50	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	50		
55	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	55		
60	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	60		
65	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	65		
70	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	70		
75	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	75		
80	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	80		
85	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	85		
90	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	90		
95	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	95		
100	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	100		
110	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	110		
120	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	120		
130	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	130		
d	a	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	d	a

Table for converting Diameters (d) into Stellar Magnitudes (m) by the formula $m=a-1.10\sqrt{d}$. $a=16.5$ to 17.8 .

a d	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	a d
8	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	8
9	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	9
10	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	10
11	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	11
12	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	12
13	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13
14	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	14
15	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	15
16	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	16
17	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	17
18	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	18
19	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	19
20	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	20
21	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	21
22	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	22
23	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	23
24	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	24
25	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	25
26	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	26
27	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	27
28	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	28
29	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	29
30	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	30
31	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	31
32	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	32
33	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	33
34	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	34
35	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	35
36	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	36
37	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	37
38	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	38
39	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	39
40	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	40
41	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	41
42	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	42
43	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	43
44	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	44
45	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	45
46	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	46
47	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	47
48	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	48
49	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	49
50	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	50
55	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	55
60	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	60
65	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	65
70	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	70
75	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	75
80	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	80
85	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	85
90	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	90
95	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	95
100	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	100
110	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	110
120	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	120
130	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	130
d a	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	d a

HYDERABAD ASTROGRAPHIC CATALOGUE, 1900

ZONE -18°

MEASURES OF RECTANGULAR CO-ORDINATES AND
DIAMETERS OF STAR-IMAGES

ON PHOTOGRAPHS TAKEN AT THE NIZAMIAH OBSERVATORY,
HYDERABAD

EXPLANATION OF THE COLUMNS.

The heading of each plate gives the approximate R.A. of the centre, the number of the plate in the Hyderabad series, the date of exposure, the provisional constants by means of which the measures may be converted into standard co-ordinates (see Introduction, Sections VII., VIII.), and the formula connecting magnitude and diameter (see Introduction, Section V.).

The first column gives a reference number which is purely arbitrary ; in order to designate a star it is only necessary to state the zone and the number, thus, -18° , 4040 ; neither the plate number nor the R.A. of the plate need be stated. Since a gap is always left between the last number of any plate and the first number of the next following plate, there are many numbers which are not allotted to stars, thus there is no star -18° , 4070.

An asterisk attached to the number in this column indicates that the star is amongst those stars selected from the Astronomische Gesellschaft Catalogues, the standard co-ordinates of which are given on pages 189–218 of this volume.

The second column gives the measured diameter, estimated in units of $0''.15$, these diameters may be converted into magnitudes by means of the formula printed at the head of each plate.

The third and fourth columns give the measured co-ordinates of the stars, denoted by x , y , the directions of the co-ordinate axes being approximately those of increasing R.A. and S. Declination, and the origin being the corner of the réseau : the plate centre is approximately at the point (13, 13).

The stars are arranged in the order of the value of the x co-ordinate for each zone of one unit of y (approximately $5'$). Each printed measure is the mean of at least two independent bisections of the star-image made in positions of the plate differing by 180° .

R.A. 0^h 0^m

Plate 822; 1916 Nov. 20.

Provisional Constants.

A	B	C
-02575	+00486	+2115

D	E	F
-00496	-02551	-3478

Mag. = 17.0 - 1.05√*d*

No.	<i>d</i>	<i>x</i>	<i>y</i>
1	18	1.650	0.326
2	17	3.418	0.936
3*	49	16.450	0.326
4	37	24.894	0.069
5	18	25.714	0.067
6*	70	3.422	1.682
7*	96	10.671	1.572
8	15	15.521	1.917
9	24	18.292	1.390
10	17	6.402	2.717
11	37	18.544	2.044
12	39	20.270	2.381
13	26	3.730	3.068
14	29	8.200	3.370
15	21	16.260	3.640
16	42	19.690	3.707
17	26	19.794	3.649
18	34	20.894	3.644
19	37	24.684	3.651
20	36	2.654	4.007
21	28	2.754	4.443
22	37	4.949	4.766
23	27	13.686	4.155
24*	52	16.642	4.003
25	23	0.514	5.795
26*	56	1.515	5.140
27	20	8.194	5.714
28*	66	12.278	5.378
29	16	14.944	5.712
30	34	17.620	5.779
31	26	21.381	5.544
32	37	2.518	6.492
33	29	7.260	6.944
34	18	8.740	6.800
35	36	11.866	6.556
36	27	25.145	6.682
37	32	10.024	7.078
38	32	12.754	7.256
39	17	13.710	7.664
40	30	15.962	7.020
41	30	21.823	7.023
42	27	23.072	7.706
43	36	10.300	8.491
44	36	20.498	8.132
45	42	21.678	8.470
46	33	2.891	9.323
47	19	3.557	9.912
48	32	4.101	9.244
49	16	4.404	9.358
50	14	13.640	9.687
51	32	14.396	9.114
52	34	14.936	9.016
53	34	18.920	9.391
54	20	25.431	9.326
55	34	25.720	9.290

56	16	6.887	10.386
57	34	8.278	10.564
58	19	9.581	10.030
59	22	12.298	10.785
60	18	13.866	10.844
61	37	14.834	10.628
62	16	20.800	10.356
63	26	25.094	10.317
64	42	25.238	10.516
65	36	6.995	11.003
66	26	7.452	11.208
67*	178	9.080	11.034
68*	118	19.050	11.599
69	18	19.783	11.332
70	30	8.157	12.220
71*	60	10.531	12.069
72	36	11.372	12.545
73	19	12.780	12.194
74	31	15.692	12.236
75	30	22.482	12.344
76	26	22.842	12.618
77*	56	8.731	13.428
78	21	10.948	13.810
79	24	12.716	13.177
80	33	13.842	13.655
81*	74	22.544	13.815
82	37	1.128	14.756
83	14	1.278	14.898
84	14	9.756	14.770
85*	37	17.225	14.424
86	17	20.578	14.994
87	41	9.576	15.736
88	22	18.036	15.819
89	21	18.036	15.450
90	26	5.584	16.456
91	26	13.923	16.103
92	17	20.213	16.151
93	22	18.236	17.704
94	22	18.367	17.792
95	38	19.291	17.224
96	24	2.604	18.038
97	22	12.498	18.635
98	20	13.079	18.543
99	30	15.108	18.645
100	20	2.732	19.725
101	32	5.691	19.096
102	22	11.773	19.859
103	32	12.864	19.908
104	36	16.208	19.783
105*	80	16.586	19.224
106	36	23.220	19.250
107	20	0.284	20.454
108	36	8.443	20.925
109*	56	12.520	20.857
110*	40	14.712	20.796
111	20	15.505	20.590
112	36	21.669	20.736
113	26	4.982	21.326
114	22	11.092	21.683
115	24	1.376	22.706
116	20	13.054	22.332
117	35	14.702	22.454
118	25	16.930	22.176
119	32	20.016	22.934
120	19	9.270	23.206
121	26	14.776	23.221
122	21	15.150	23.116
123	38	17.143	23.571
124	23	18.744	23.956
125	16	23.474	23.496
126	16	1.795	24.872
127	30	2.016	24.054

128	20	7.934	24.760
129	24	11.544	24.926
130	37	12.943	24.272
131	32	15.335	24.994
132	37	18.266	24.080
133	24	20.644	24.026
134*	57	24.728	24.565
135	14	25.592	24.788
136	37	0.471	25.412
137	27	2.656	25.234
138	36	3.060	25.051
139	16	6.902	25.673
140	20	8.338	25.093
141	25	11.684	25.737
142	21	12.660	25.859
143	44	13.969	25.704
144	19	20.100	25.842

R.A. 0^h 8^m

Plate 848; 1916 Nov. 27.

Provisional Constants.

A	B	C
-02553	+00257	+0738

D	E	F
-00270	-02569	-3877

Mag. = 16.5 - 1.05√*d*

No.	<i>d</i>	<i>x</i>	<i>y</i>
151	28	2.377	0.133
152	15	3.206	0.125
153	23	6.669	0.382
154	13	8.777	0.208
155	10	15.031	0.730
156	17	16.881	0.590
157	13	18.738	0.382
158	17	20.356	0.048
159	33	22.298	0.368
160	17	10.878	1.744
161	11	13.948	1.156
162	12	21.236	1.133
163	9	25.658	1.696
164	17	18.419	2.770
165	27	20.362	2.575
166	10	22.272	2.786
167	35	23.474	2.317
168	30	2.198	3.719
169	26	4.627	3.530
170	8	5.785	3.923
171	12	7.564	3.275
172	10	9.446	3.316
173	15	9.660	3.474
174	33	14.442	3.600
175*	45	16.718	3.221
176	9	20.203	3.208
177	31	24.428	3.073
178	14	1.364	4.054
179	19	3.674	4.422
180*	42	5.030	4.548
181	15	6.223	4.322

182	8	7.025	4.684
183	22	9.138	4.849
184*	47	9.763	4.900
185	14	13.579	4.530
186	31	17.734	4.920
187*	75	18.860	4.201
188	30	20.118	4.852
189	13	22.866	4.141
190	11	4.307	5.088
191	18	6.358	5.292
192	27	7.900	5.526
193	28	9.124	5.840
194	22	10.765	5.753
195	15	15.350	5.368
196	10	20.036	5.797
197	24	2.682	6.744
198	13	10.844	6.386
199	41	17.248	6.648
200	26	0.618	7.782
201	11	13.392	7.141
202	8	15.016	7.784
203	16	17.856	7.462
204	16	19.594	7.136
205	14	21.562	7.288
206	9	3.927	8.705
207	29	4.808	8.044
208	21	5.293	8.803
209	19	5.326	8.934
210*	43	17.360	8.862
211	14	17.812	8.274
212	22	21.836	8.713
213	15	2.992	9.388
214	27	3.280	9.348
215	14	4.300	9.800
216	27	9.938	9.982
217	29	12.624	9.477
218*	52	13.081	9.031
219*	64	13.153	9.232
220	18	14.678	9.156
221*	36	16.605	9.920
222	10	22.946	9.826
223	10	0.221	10.484
224	25	2.662	10.381
225*	39	2.807	10.578
226*	39	4.047	10.020
227	18	4.172	10.253
228	13	9.023	10.020
229	27	10.719	10.434
230	15	10.795	10.128
231	12	11.317	10.071
232	25	13.234	10.597
233*	43	18.378	10.086
234	14	6.215	11.302
235	13	11.192	11.207
236	8*	14.758	11.770
237	8	18.867	11.494
238	13	21.898	11.826
239	26	23.221	11.294
240	13	23.372	11.160
241	27	0.068	12.428
242	18	0.430	12.699
243	9	6.650	12.901
244	31	8.360	12.422
245	13	9.588	12.268
246	28	12.626	12.450
247	26	13.004	12.473
248	20	17.500	12.300
249	10	20.298	12.993
250	28	20.634	12.620
251	24	22.812	12.694
252*	83	0.136	13.898
253	11	6.886	13.751

326	17	15.739	23.948	417	14	19.715	1.689	489	22	19.059	11.600	561	38	20.065	20.572	656	8	18.030	0.168
327*	38	16.630	23.808	418	14	24.662	1.475	490	21	19.984	11.786	562	9	6.144	21.287	657	12	2.210	1.560
328	34	23.038	23.472	419	39	1.245	2.604	491	24	23.098	11.539	563	19	6.268	21.664	658	14	16.419	1.879
329	14	23.770	23.166	420	9	3.084	2.987	492	30	0.719	12.990	564	31	7.518	21.340	659	14	18.170	1.739
330	36	24.893	23.460	421	10	3.932	2.502	493	18	9.639	12.977	565	12	10.749	21.074	660	13	18.440	1.170
331	13	25.724	23.038	422	29	12.130	2.346	494*	41	10.072	12.838	566	20	10.912	21.154	661	15	25.092	1.092
332	11	1.455	24.956	423	29	13.358	2.036	495	27	10.578	12.256	567	26	14.949	21.543	662	12	3.160	2.083
333	10	1.582	24.912	424	10	14.090	2.563	496	8	12.780	12.613	568	10	22.730	21.577	663	31	12.215	2.092
334*	44	2.418	24.626	425*	50	17.658	2.163	497	9	14.287	12.434	569	48	0.282	22.035	664	8	17.754	2.640
335	13	3.288	24.844	426*	48	20.662	2.087	498	27	21.692	12.336	570	37	2.210	22.642	665	12	21.362	2.531
336	22	7.279	24.892	427	13	25.615	2.000	499	61	24.982	12.200	571	32	2.601	22.612	666	9	22.182	2.281
337	32	7.330	24.873	428	12	0.050	3.088	500	12	25.598	12.572	572	9	5.484	22.599	667	9	0.328	3.318
338	12	8.773	24.020	429	32	2.208	3.349	501*	49	4.046	13.954	573	26	8.174	22.084	668	18	2.814	3.279
339	11	10.083	24.236	430	12	5.050	3.882	502	10	4.604	13.876	574	30	13.156	22.730	669	17	3.675	3.984
340	16	13.940	24.288	431	35	6.382	3.405	503	16	5.176	13.240	575	29	13.457	22.783	670	14	13.740	3.362
341	14	14.858	24.078	432	9	10.200	3.361	504	16	7.262	13.806	576	25	14.642	22.936	671	13	15.030	3.435
342	41	15.906	24.999	433	22	10.908	3.318	505	10	8.486	13.330	577	14	18.255	22.939	672	40	25.854	3.469
343	21	16.323	24.849	434	16	11.096	3.032	506	9	12.715	13.164	578	41	20.699	22.352	673	14	3.825	4.741
344	34	16.376	24.144	435*	43	18.085	3.417	507	29	13.834	13.044	579	27	25.348	22.920	674	11	5.066	4.750
345	27	17.276	24.081	436	26	18.928	3.621	508	14	16.254	13.589	580	12	0.050	23.730	675	10	10.134	4.921
346	15	18.829	24.230	437	17	19.225	3.000	509	29	16.794	13.046	581	36	1.092	23.764	676	8	11.520	4.148
347	10	25.346	24.025	438	26	25.264	3.195	510	10	20.112	13.556	582	19	1.818	23.449	677	11	11.934	4.034
348	9	25.462	24.648	439	12	0.661	4.438	511	10	20.644	13.684	583	42	2.946	23.728	678	20	17.738	4.672
349	49	6.930	25.490	440	9	1.160	4.842	512	9	20.942	13.276	584	21	3.776	23.296	679	11	17.950	4.050
350	15	7.044	25.254	441	10	5.056	4.891	513	39	22.516	13.006	585	31	11.314	23.384	680*	68	19.060	4.870
351	71	8.642	25.820	442	14	9.839	4.919	514	10	24.875	13.240	586	30	12.119	23.964	681	35	22.427	4.448
352	14	9.512	25.838	443	9	15.198	4.589	515	40	25.790	13.854	587	14	12.862	23.079	682	35	6.390	5.144
353	42	10.980	25.040	444*	55	21.714	4.524	516	11	0.344	14.276	588	8	13.129	23.965	683	10	6.517	5.266
354	8	12.355	25.143	445	8	2.662	5.321	517	12	12.148	14.128	589	37	15.083	23.304	684	14	11.548	5.760
355	17	19.888	25.757	446	12	14.125	5.414	518	10	17.070	14.200	590	29	21.173	23.957	685	37	13.130	5.260
356	12	20.276	25.187	447	11	15.762	5.668	519	33	20.126	14.856	591*	47	23.758	23.360	686	41	13.300	5.484
357	30	21.366	25.955	448	8	16.296	5.519	520	29	21.602	14.228	592	10	24.144	23.320	687	28	15.285	5.460
				449*	36	18.682	5.276	521	22	23.905	14.519	593	19	24.196	23.336	688	12	23.971	5.865
				450*	39	21.628	5.220	522	16	0.085	15.062	594	16	25.784	23.897	689	13	24.772	5.843
				451	10	0.348	6.654	523*	43	2.355	15.126	595	23	3.412	24.284	690	14	3.578	6.145
				452	13	5.700	6.122	524	25	2.596	15.300	596	14	3.534	24.906	691	45	7.894	6.015
				453	20	6.328	6.534	525*	66	8.528	15.236	597	11	5.443	24.200	692	16	9.295	6.700
				454	10	8.212	6.850	526	12	8.755	15.702	598	13	6.512	24.898	693*	53	9.310	6.701
				455	23	17.338	6.944	527	15	8.888	15.346	599	34	8.119	24.115	694	34	24.186	6.500
				456	8	19.659	6.556	528*	76	10.112	15.464	600	31	15.900	24.333	695	25	25.617	6.468
				457*	40	6.270	7.670	529	12	13.825	15.303	601	34	18.219	24.628	696	12	25.635	6.474
				458	23	7.424	7.404	530	15	16.034	15.400	602*	60	23.450	24.423	697	25	25.653	6.427
				459	13	10.284	7.986	531	19	16.060	15.600	603	16	10.985	25.223	698	33	6.932	7.979
				460	10	18.421	7.361	532	9	21.004	15.229	604	10	15.696	25.028	699	12	9.520	7.465
				461	42	21.474	7.114	533*	42	1.948	16.292	605	11	16.709	25.055	700	19	17.770	7.530
				462	12	9.741	8.692	534	12	4.796	16.956					701	23	23.014	7.258
				463	8	10.234	8.388	535	15	4.838	16.748					702	9	1.224	8.439
				464	16	11.446	8.128	536	19	6.498	16.454					703	15	2.876	8.746
				465	17	13.970	8.362	537	28	11.191	16.722					704	8	4.585	8.430
				466*	44	16.984	8.583	538	10	15.425	16.854					705	9	7.657	8.016
				467	14	18.377	8.795	539*	43	16.188	16.756					706	14	11.962	8.735
				468	29	18.657	8.530	540	9	20.643	16.086					707	14	19.252	8.391
				469	25	19.154	8.590	541*	75	21.088	16.712					708	12	24.184	8.286
				470	10	23.650	8.348	542	39	25.792	16.744					709	17	3.198	9.618
				471	22	25.303	8.662	543	54	0.423	17.854					710	9	3.650	9.416
				472	10	6.834	9.712	544	9	10.560	17.356					711*	40	11.630	9.873
				473	9	9.212	9.072	545	9	13.214	17.357					712*	51	12.850	9.812
				474	10	12.052	9.167	546	12	16.872	17.680					713*	50	14.808	9.707
				475	10	13.854	9.228	547	12	17.000	17.174					714	12	16.150	9.680
				476	23	22.118	9.366	548	17	18.563	17.761					715	10	17.865	9.360
				477	22	25.615	9.536	549	12	19.949	17.260					716	20	18.770	9.517
				478	22	5.967	10.252	550	11	21.804	17.636					717	11	6.538	10.332
				479	17	6.320	10.002	551	19	24.926	17.317					718	10	11.908	10.516
				480	8	15.436	10.230	552	10	2.546	18.976					719	33	20.703	10.025
				481	34	18.894	10.058	553	14	6.765	18.744					720	30	25.458	10.744
				482	29	1.110	11.584	554	11	23.689	18.433					721	27	25.630	10.447
				483	15	1.260	11.448	555	27	24.976	18.602					722	18	0.685	11.630
				484	8	9.726	11.959	556	15	18.308	19.295					723	8	5.142	11.612
				485	8	9.842	11.444	557	8	19.540	19.905					724	30	5.186	11.440
				486	11	12.564	11.816	558	12	20.710	19.406					725	25	8.541	11.986
				487	12	15.576	11.804	559	10	23.646	19.172					726*	46	9.169	11.162
				488	10	18.060	11.536	560	28	15.304	20.646					727	8	20.056	11.651

R.A. 0^h 16^m
 Plate 849 ; 1916 Nov. 27.
Provisional Constants.

A	B	C
-0.2545	+0.0532	+2.005

728	38	22.954	11.085	800	8	7.486	19.480	854	15	14.656	0.841	926	16	3.829	8.575	998	14	25.468	16.400
729	10	24.810	11.297	801	10	15.720	19.487	855	28	16.292	0.436	927	20	5.030	8.146	999	13	25.653	16.116
730*	80	2.565	12.290	802	29	17.005	19.514	856	24	7.266	1.162	928*	38	6.035	8.556	1000	13	5.606	17.530
731	10	3.190	12.651	803	12	18.455	19.429	857	18	13.941	1.636	929	8	9.284	8.394	1001	19	8.664	17.357
732	31	4.976	12.240	804	9	22.920	19.848	858	14	17.336	1.656	930	21	17.174	8.505	1002	9	17.053	17.546
733	12	13.426	12.718	805*	58	24.470	19.211	859	18	22.395	1.040	931	26	18.330	8.208	1003	10	18.518	17.460
734	32	17.851	12.385	806	23	24.732	19.294	860	15	22.406	1.073	932	19	23.818	8.524	1004	17	20.500	17.084
735	37	18.150	12.210	807	10	3.819	20.121	861*	91	22.430	1.368	933	12	25.100	8.386	1005*	40	22.965	17.410
736	10	18.284	12.551	808	12	5.718	20.306	862	9	23.744	1.328	934	12	3.934	9.320	1006	12	1.053	18.344
737	10	18.322	12.062	809	12	11.293	20.716	863	12	24.136	1.426	935	15	9.856	9.624	1007	9	2.193	18.483
738	11	22.258	12.856	810	22	11.668	20.593	864*	40	4.134	2.965	936	20	10.655	9.263	1008	10	3.384	18.190
739	44	0.110	13.103	811	16	15.720	20.424	865*	55	9.488	2.069	937	14	18.516	9.648	1009	8	8.170	18.275
740*	40	3.385	13.935	812	16	16.178	20.966	866*	34	10.186	2.933	938	11	19.259	9.206	1010	18	12.465	18.784
741	42	4.136	13.292	813	10	16.316	20.126	867	11	13.084	2.682	939	12	20.744	9.814	1011	10	15.014	18.551
742	9	6.125	13.480	814	29	17.271	20.112	868	32	15.289	2.602	940	19	21.177	9.916	1012*	40	2.374	19.104
743	13	6.666	13.008	815	8	18.219	20.322	869	12	15.352	2.528	941	22	25.828	9.430	1013	20	2.643	19.184
744	10	8.560	13.817	816*	68	22.632	20.281	870	21	17.784	2.968	942	21	3.210	10.624	1014	11	5.590	19.700
745	13	9.316	13.300	817*	56	23.885	20.351	871	12	22.986	2.243	943	20	3.378	10.324	1015	8	6.356	19.970
746	10	9.615	13.871	818	49	25.688	20.365	872	33	3.475	3.341	944	10	5.774	10.034	1016	9	7.404	19.742
747	8	11.890	13.470	819	11	4.485	21.676	873	14	3.900	3.971	945	8	9.275	10.755	1017	17	13.824	19.571
748	31	13.614	13.234	820	10	8.140	21.034	874*	42	4.694	3.933	946	10	11.524	10.494	1018	8	14.716	19.502
749	12	13.823	13.984	821	19	11.140	21.035	875*	47	9.541	3.244	947	11	19.085	10.202	1019	60	0.554	20.210
750	9	16.900	13.580	822*	70	21.215	21.585	876*	59	15.154	3.225	948*	37	23.712	10.522	1020*	43	1.811	20.256
751	11	17.002	13.821	823	8	12.277	22.448	877*	34	22.608	3.155	949	12	23.878	10.766	1021*	38	3.614	20.236
752	11	20.438	13.703	824	22	12.902	22.300	878	12	23.538	3.019	950	30	0.714	11.006	1022	9	4.123	20.606
753	19	23.400	13.890	825	12	14.821	22.628	879	14	25.486	3.953	951	12	2.574	11.186	1023	19	9.691	20.931
754	12	1.510	14.610	826	17	21.246	22.221	880	28	0.064	4.384	952	14	5.803	11.008	1024	10	9.892	20.503
755	10	6.130	14.883	827	11	22.030	22.580	881	11	4.356	4.288	953	10	7.940	11.532	1025	11	18.354	20.870
756	33	12.244	14.056	828*	58	1.398	23.450	882	16	8.154	4.366	954	11	8.292	11.564	1026	12	18.850	20.496
757	12	15.918	14.222	829	11	1.838	23.424	883	12	9.372	4.439	955	13	11.143	11.856	1027	10	22.448	20.344
758	16	9.245	15.120	830	22	2.990	23.006	884	12	10.024	4.194	956	8	16.774	11.594	1028	14	22.784	20.224
759	12	10.316	15.882	831	12	3.430	23.980	885	13	14.164	4.186	957	12	19.677	11.600	1029	12	24.846	20.506
760	10	12.516	15.096	832	21	11.875	23.618	886*	44	17.926	4.088	958	20	22.823	11.405	1030	8	5.964	21.233
761	8	13.863	15.980	833	12	18.832	23.051	887	11	21.170	4.673	959	8	0.050	12.796	1031*	40	8.176	21.214
762	22	16.066	15.549	834*	86	1.090	24.516	888	9	1.502	5.331	960	19	4.144	12.019	1032	8	6.782	22.032
763	35	17.548	15.650	835	18	12.200	24.470	889	12	1.635	5.774	961	28	5.638	12.112	1033	16	6.980	22.038
764*	58	23.581	15.470	836	17	12.380	24.930	890	10	2.438	5.736	962	32	5.872	12.986	1034	17	7.758	22.872
765	40	3.402	16.824	837	18	12.670	24.278	891	17	3.909	5.538	963	8	17.193	12.454	1035	16	16.849	22.026
766	20	6.354	16.018	838	24	13.894	24.659	892	32	4.781	5.284	964	10	18.650	12.865	1036	11	0.587	23.970
767	24	7.819	16.844	839	23	16.346	24.076	893	15	5.875	5.012	965	11	0.809	13.850	1037	23	4.016	23.224
768	13	12.265	16.875	840	13	22.588	24.043	894	11	8.843	5.877	966	15	1.208	13.806	1038*	55	8.144	23.794
769*	50	13.238	16.926	841	8	0.950	25.256	895	21	10.535	5.360	967	8	2.054	13.617	1039	10	14.825	23.594
770	25	13.760	16.299	842	10	3.510	25.340	896	10	13.786	5.009	968	10	5.475	13.650	1040	13	15.984	23.474
771	38	16.691	16.784	843	16	3.653	25.848	897	24	15.036	5.484	969	10	13.035	13.564	1041	11	18.291	23.994
772	14	19.182	16.559	844	11	10.421	25.312	898	10	16.419	5.170	970	10	14.503	13.873	1042	10	18.770	23.488
773	10	19.426	16.741	845	23	16.821	25.917	899	20	16.791	5.206	971	12	16.659	13.283	1043	11	4.774	24.272
774	13	2.542	17.402	846	25	21.776	25.847	900	10	18.167	5.594	972*	40	21.691	13.968	1044*	45	17.856	24.456
775	27	6.854	17.177	847	11	22.280	25.732	901	8	23.100	5.677	973	11	23.551	13.602	1045	10	18.006	24.740
776	9	8.102	17.506					902	28	1.860	6.402	974	13	7.939	14.666	1046	54	8.230	25.420
777*	49	8.163	17.194					903	22	3.292	6.343	975	10	9.348	14.044	1047	24	12.645	25.649
778	40	8.440	17.807					904	10	3.311	6.351	976	20	9.556	14.744	1048	40	21.549	25.149
779	11	11.350	17.475					905	19	3.327	6.304	977*	47	10.783	14.252				
780	25	21.199	17.670					906	32	14.770	6.391	978	9	17.746	14.792				
781	22	22.220	17.020					907	10	14.908	6.148	979*	35	21.094	14.777				
782	8	1.308	18.523					908	10	16.904	6.214	980	12	23.148	14.410				
783	21	2.598	18.688					909	8	18.182	6.312	981*	42	1.419	15.382				
784	9	7.522	18.473					910	10	19.806	6.814	982	34	4.330	15.410				
785	16	9.956	18.217					911	20	0.702	7.183	983	17	4.895	15.430				
786	12	12.964	18.212					912	11	9.286	7.007	984	8	5.209	15.769				
787	16	14.542	18.982					913	11	14.000	7.929	985	18	9.908	15.166				
788	18	14.972	18.012					914	10	14.240	7.834	986	19	16.846	15.838				
789	12	16.549	18.280					915	25	15.279	7.220	987	26	23.270	15.041				
790	15	18.118	18.020					916	8	15.662	7.814	988	18	0.086	16.956				
791	11	18.940	18.689					917	16	16.870	7.914	989	15	4.831	16.350				
792	14	20.052	18.368					918	23	18.054	7.808	990	24	8.800	16.192				
793	12	20.774	18.746					919	12	18.092	7.825	991*	45	12.050	16.412				
794	8	22.103	18.299					920	12	19.125	7.408	992	28	14.596	16.106				
795	11	23.158	18.422					921	12	20.382	7.215	993	9	17.110	16.244				
796	10	25.490	18.315					922	23	21.048	7.874	994	10	19.397	16.003				
797	9	1.268	19.266					923	11	23.752	7.166	995	15	24.046	16.244				

R.A. 0 ^h 40 ^m																														
Plate 833; 1916 Nov. 25.																														
Provisional Constants.																														
A	B	C																												
-0.2517	+0.0429	+0.336																												
D	E	F																												
-0.0432	-0.2562	-1.665																												
Mag.=16.0-1.05√d																														
No.	d	x	y																											
1101	14	1.938	0.845	1156	32	21.790	6.885	1228	18	9.498	14.402	1300	17	11.467	24.208	1386	23	13.751	6.830											
1102	20	4.068	0.617	1157	16	1.398	7.394	1229	22	9.972	14.032	1301	36	18.116	24.956	1387*	57	19.140	6.654											
1103	23	10.975	0.862	1158	10	2.165	7.615	1230	11	10.521	14.076	1302	16	23.607	24.458	1388	10	22.452	6.146											
1104	34	11.322	0.706	1159	14	5.076	7.444	1231	30	0.978	15.274	1303	21	3.864	25.005	1389	23	24.940	6.094											
1105*	98	14.665	0.410	1160	21	7.925	7.286	1232*	44	4.786	15.884	1304	14	6.185	25.692	1390	28	2.082	7.552											
1106	25	17.036	0.146	1161	28	12.198	7.286	1233	10	5.475	15.574	1305	29	6.548	25.736	1391	27	4.900	7.004											
1107	17	18.203	0.734	1162	11	12.984	7.439	1234	10	7.880	15.154	1306	32	10.831	25.028	1392	24	6.409	7.130											
1108	10	19.758	0.980	1163	31	16.921	7.414	1235	16	12.725	15.560	1307	26	11.384	25.306	1393*	32	9.053	7.964											
1109	22	24.034	0.494	1164	30	24.254	7.584	1236	12	20.556	15.656	1308	18	14.652	25.286	1394*	38	9.522	7.922											
1110	14	24.102	0.580	1165	18	1.430	8.054	1237	8	21.056	15.596	1309	34	18.964	25.516	1395	26	15.932	7.276											
1111	26	0.005	1.314	1166	22	1.474	8.752	1238	22	1.766	16.472	1310	19	20.438	25.940	1396	8	17.515	7.531											
1112	84	0.022	1.608	1167	21	2.756	8.604	1239	16	2.835	16.855	1311	24	21.398	25.893	1397*	34	23.946	7.900											
1113	21	1.737	1.653	1168	16	3.123	8.234	1240	20	3.116	16.720	1312	62	23.106	25.178	1398	15	0.263	8.086											
1114	32	4.393	1.846	1169	17	6.269	8.753	1241	17	3.192	16.614					1399	9	3.592	8.942											
1115	36	6.986	1.814	1170	14	9.492	8.065	1242	20	3.374	16.330					1400	10	5.025	8.496											
1116	37	16.846	1.826	1171	22	10.844	8.086	1243	11	4.986	16.489					1401	10	15.372	8.120											
1117	15	24.376	1.844	1172	24	11.024	8.308	1244	14	16.059	16.041					1402	10	16.464	8.279											
1118	22	0.593	2.478	1173	16	13.055	8.075	1245	36	20.837	16.063					1403	12	17.336	8.246											
1119	22	3.684	2.256	1174	16	20.514	8.334	1246	21	24.936	16.244					1404	24	20.214	8.989											
1120	31	3.897	2.781	1175	34	22.430	8.103	1247	38	0.691	17.646					1405	23	20.421	8.314											
1121	38	10.972	2.783	1176	15	25.750	8.980	1248	11	5.729	17.458					1406	12	20.786	8.725											
1122	23	11.274	2.913	1177	29	3.492	9.643	1249	11	5.807	17.204					1407	14	23.132	8.100											
1123	36	17.574	2.093	1178	15	3.578	9.766	1250	11	11.785	17.508					1408	24	5.244	9.030											
1124	27	23.728	2.535	1179	14	7.002	9.852	1251	14	14.367	17.943					1409	10	5.830	9.235											
1125	42	0.218	3.392	1180	15	7.524	9.305	1252*	34	14.636	17.587					1410	11	5.841	9.404											
1126	22	1.154	3.250	1181	24	8.540	9.292	1253	11	16.593	17.618					1411	26	8.504	9.456											
1127*	54	6.016	3.745	1182	20	10.662	9.264	1254	26	22.279	17.954					1412	24	11.185	9.140											
1128	34	13.700	3.658	1183	15	12.399	9.104	1255	14	25.444	17.914					1413	22	15.152	9.662											
1129	37	13.722	3.663	1184*	38	12.633	9.904	1256*	200	8.836	18.744					1414	8	17.591	9.490											
1130*	78	15.488	3.088	1185	14	14.912	9.044	1257	10	9.981	18.590					1415	11	14.424	10.293											
1131	40	21.301	3.200	1186	11	16.399	9.821	1258	15	12.307	18.042					1416	10	19.478	10.190											
1132	26	3.106	4.167	1187*	42	16.600	9.596	1259	10	12.707	18.250					1417*	50	20.876	10.654											
1133	15	4.104	4.028	1188	14	19.146	9.242	1260	11	17.136	18.294					1418	12	21.095	10.020											
1134	14	10.214	4.540	1189	19	21.368	9.733	1261	11	18.698	18.595					1419	10	19.840	11.944											
1135	22	10.328	4.214	1190	12	24.434	9.528	1262	20	21.125	18.140					1420	17	25.796	11.258											
1136	17	10.392	4.469	1191*	37	1.382	10.752	1263	27	23.390	18.220					1421	20	2.153	12.166											
1137	23	11.426	4.577	1192	20	1.555	10.995	1264	11	10.648	19.528					1422	10	4.044	12.433											
1138	18	11.460	4.774	1193	30	4.035	10.592	1265	15	18.004	19.356					1423	10	7.060	12.746											
1139	36	15.224	4.524	1194	34	6.002	10.692	1266*	82	20.390	19.560					1424	32	11.924	12.899											
1140	25	24.416	4.978	1195	14	6.809	10.946	1267	16	21.902	19.334					1425	12	17.070	12.006											
1141	18	24.776	4.896	1196	14	11.300	10.774	1268	36	25.962	19.491					1426*	53	18.822	12.222											
1142	17	0.734	5.912	1197	31	11.326	10.093	1269	16	0.206	20.584					1427	23	19.986	12.732											
1143	14	8.416	5.171	1198	13	12.608	10.857	1270	20	0.539	20.465					1428*	55	1.055	13.497											
1144	30	11.702	5.116	1199	16	15.024	10.759	1271	10	0.947	20.632					1429	8	5.665	13.160											
1145	37	12.226	5.005	1200	16	15.665	10.076	1272	21	2.603	20.727					1430	29	12.184	13.448											
1146	19	15.561	5.713	1201	20	0.502	11.644	1273	16	5.250	20.314					1431	23	12.458	13.862											
1147	17	16.458	5.448	1202	13	1.386	11.876	1274	16	7.156	20.826					1432	11	18.626	13.236											
1148	15	18.788	5.518	1203	12	6.119	11.470	1275	22	10.644	20.643					1433	8	19.110	13.113											
11																														

1458	8	16.935	17.937	1515*	46	20.052	2.058	1587	8	5.739	12.214	1659	12	21.382	21.087	1718*	37	22.446	2.028
1459	22	1.285	18.194	1516	29	21.779	2.894	1588	8	6.166	12.148	1660	15	25.216	21.167	1719	28	25.606	2.213
1460	13	7.400	18.584	1517	34	25.970	2.325	1589*	46	6.907	12.732	1661	14	7.996	22.264	1720	8	4.799	3.553
1461	8	9.210	18.815	1518	22	0.338	3.228	1590	9	8.438	12.146	1662	9	14.894	20.034	1721	29	4.825	3.837
1462	19	9.888	18.856	1519	24	8.950	3.689	1591	27	17.944	12.128	1663	11	15.698	22.520	1722	11	5.582	3.624
1463	12	13.937	18.894	1520	10	12.160	3.374	1592	18	19.558	12.416	1664	29	17.052	22.608	1723	12	14.384	3.162
1464*	38	15.726	18.769	1521	33	15.746	3.671	1593*	46	23.613	12.528	1665	10	17.833	22.420	1724	24	16.087	3.934
1465	32	24.184	18.274	1522	10	18.298	3.667	1594	11	0.058	13.790	1666*	54	23.332	22.440	1725	10	18.482	3.112
1466	30	3.865	19.446	1523	17	18.311	3.535	1595	8	2.773	13.162	1667	8	10.117	23.036	1726	10	23.300	3.155
1467	9	4.273	19.189	1524*	34	2.036	4.842	1596	25	3.520	13.040	1668	14	17.470	23.254	1727*	34	23.438	3.232
1468	8	12.650	19.149	1525	26	5.624	4.750	1597	8	5.237	13.371	1669	33	18.386	23.982	1728	11	24.152	3.425
1469*	42	16.155	19.089	1526*	41	5.758	4.748	1598	9	11.023	13.640	1670	13	18.538	23.520	1729	22	3.670	4.424
1470	11	18.340	19.812	1527	17	9.484	4.313	1599	11	12.720	13.868	1671	10	20.128	23.060	1730	11	8.028	4.207
1471	8	4.754	20.827	1528	15	9.882	4.400	1600	11	16.231	13.856	1672	28	21.780	23.102	1731	8	17.031	4.555
1472	8	10.944	20.800	1529	9	11.082	4.622	1601	14	17.609	13.290	1673	16	24.730	23.066	1732	8	17.916	4.776
1473	18	13.355	20.998	1530	8	17.976	4.321	1602	33	20.556	13.732	1674	28	25.344	23.622	1733	11	18.890	4.486
1474	11	22.640	20.475	1531	19	18.230	4.653	1603	20	4.458	14.200	1675	10	1.695	24.196	1734	24	5.845	5.094
1475	9	4.944	21.248	1532	17	19.714	4.360	1604	14	12.594	14.739	1676*	47	7.029	24.801	1735	9	7.182	5.530
1476	10	16.214	21.246	1533	19	22.326	4.678	1605	13	15.296	14.198	1677	33	8.355	24.094	1736	12	7.391	5.224
1477	15	19.577	21.950	1534	17	11.415	5.855	1606	10	15.852	14.345	1678	25	11.278	24.789	1737	12	11.715	5.856
1478	8	3.296	22.899	1535	26	12.664	5.526	1607	12	15.912	14.550	1679	30	16.311	24.033	1738	22	13.948	5.015
1479	9	8.803	22.400	1536	28	16.888	5.486	1608	35	17.760	14.330	1680	8	16.926	24.282	1739	21	13.990	5.534
1480	13	16.722	22.796	1537	9	24.972	5.384	1609*	32	22.390	14.550	1681	27	17.860	24.554	1740	18	19.032	5.410
1481	11	19.838	22.035	1538	14	0.028	6.232	1610	15	7.934	15.247	1682	25	19.390	24.325	1741	25	23.962	5.952
1482	8	19.956	22.418	1539	29	2.514	6.143	1611	8	9.050	15.411	1683	9	2.836	25.662	1742	18	25.636	5.868
1483	8	1.186	23.560	1540	27	7.173	6.426	1612	12	14.582	15.382	1684	8	4.770	25.836	1743	27	25.851	5.285
1484	11	17.975	23.797	1541	9	8.316	6.288	1613	10	14.824	15.855	1685	21	8.174	25.640	1744	9	1.409	6.072
1485	10	22.463	23.800	1542	13	8.610	6.418	1614	9	18.640	15.054	1686	8	8.215	25.333	1745	9	3.210	6.581
1486*	49	6.517	24.680	1543	14	10.830	6.860	1615	11	21.424	15.616	1687	9	12.699	25.212	1746	8	3.315	6.612
1487*	42	8.866	24.706	1544	26	11.187	6.652	1616	10	1.024	16.832	1688	36	15.272	25.304	1747	9	4.446	6.734
1488*	51	20.813	24.968	1545	9	13.634	6.430	1617	19	8.315	16.028	1689	55	21.418	25.310	1748	23	15.865	6.356
1489	50	1.045	25.152	1546	18	15.166	6.514	1618	8	8.926	16.558					1749	10	20.870	6.138
1490	20	7.362	25.982	1547	19	15.750	6.724	1619	12	17.218	16.648					1750	8	2.564	7.926
1491	54	12.352	25.479	1548	27	19.559	6.777	1620	14	21.344	16.593					1751	8	8.236	7.722
				1549	8	24.539	6.022	1621	8	21.854	16.646					1752*	40	11.199	7.686
				1550*	38	1.542	7.963	1622	31	23.718	16.368					1753	10	13.638	7.420
				1551	8	5.302	7.890	1623	32	23.990	16.634					1754	15	4.998	8.562
				1552*	72	11.604	7.920	1624	14	3.166	17.032					1755	9	6.870	8.588
				1553	35	14.425	7.641	1625	8	5.826	17.446					1756	17	7.393	8.439
				1554	24	15.672	7.490	1626	16	6.035	17.026					1757	22	14.174	8.459
				1555	18	0.729	8.176	1627	11	6.222	17.112					1758	15	14.510	8.714
				1556	12	4.222	8.588	1628	11	10.826	17.091					1759	10	14.650	8.512
				1557	25	6.811	8.300	1629	25	15.038	17.216					1760*	43	16.872	8.786
				1558*	52	11.758	8.054	1630	14	19.528	17.491					1761	10	17.136	8.974
				1559	9	13.417	8.272	1631	8	23.964	17.281					1762	8	19.294	8.245
				1560	10	16.158	8.850	1632	35	1.929	18.334					1763	9	20.796	8.210
				1561	9	17.962	8.367	1633	19	4.391	18.800					1764	10	25.373	8.788
				1562	22	18.055	8.650	1634*	40	6.592	18.830					1765	10	0.844	9.304
				1563	10	19.200	8.677	1635	14	12.452	18.552					1766	8	1.531	9.813
				1564	8	12.438	9.149	1636	8	12.738	18.842					1767	13	3.279	9.306
				1565	10	12.598	9.172	1637	22	18.697	18.142					1768	10	5.987	9.700
				1566	18	15.388	9.920	1638	38	22.282	18.480					1769	11	12.329	9.614
				1567	13	15.738	9.657	1639*	40	23.119	18.090					1770	23	19.946	9.822
				1568*	40	20.774	9.338	1640	9	5.142	19.474					1771	19	20.158	9.366
				1569	8	23.942	9.247	1641	19	7.571	19.318					1772	19	20.536	10.834
				1570	9	1.229	10.214	1642	8	9.977	19.700					1773	11	22.160	10.159
				1571	10	5.588	10.898	1643*	47	10.110	19.465					1774	13	2.703	11.252
				1572	9	5.993	10.230	1644	8	12.930	19.378					1775	12	3.954	11.560
				1573	15	8.066	10.803	1645	11	14.117	19.590					1776	12	5.236	11.601
				1574	26	8.406	10.323	1646	12	15.890	19.711					1777	13	15.236	11.268
				1575	10	11.916	10.198	1647	13	0.420	20.560					1778	31	17.916	11.516
				1576	18	12.036	10.660	1648	15	4.307	20.747					1779	19	19.562	11.989
				1577	24	12.956	10.380	1649	10	8.638	20.152					1780*	44	0.550	12.590
				1578	21	3.443	11.299	1650*	66	11.990	20.118					1781	10	3.498	12.790
				1579	8	8.052	11.554	1651	9	12.135	20.946					1782*	36	14.521	12.674
				1580	8	9.840	11.810	1652	18	13.494	20.676					1783	10	16.725	12.714
				1581	8	17.242	11.174	1653	8	18.410	20.350					1784	11	19.728	12.972
				1582	23	17.386	11.106	1654	9	20.236	20.128					1785	12	20.387	12.844
				1583	17	25.778	11.214	1655	9	4.284	21.212					1786	8	4.182	13.280
				1584	17	4.208	12.437	1656	20	14.987	21.036					1787	8	12.188	13.108
				1585	26	4.425	12.774	1657	11	16.212	21.354					1788*	38	14.470	13.260
				1586	17	4.982	12.830	1658	13	18.968	21.748					1789	13	14.798	13.694

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Provisional Constants.

1790	9	18.762	13.304	1862	12	9.953	24.871	1936	25	23.664	4.993	2008	22	1.668	14.571	2080	14	7.756	23.896
1791*	35	19.904	13.177	1863	19	9.998	24.184	1937	16	25.734	4.734	2009	18	2.146	14.500	2081	18	9.544	23.325
1792	16	3.284	14.465	1864	36	19.794	24.262	1938	34	4.429	5.422	2010	24	5.912	14.580	2082*	58	9.646	23.544
1793	9	5.108	14.374	1865	40	3.444	25.728	1939*	39	4.890	5.715	2011	20	6.156	14.222	2083	12	16.349	23.823
1794	22	7.070	14.266	1866	10	7.959	25.616	1940*	40	5.984	4.434	2012	15	7.198	14.784	2084	14	16.572	23.468
1795	13	7.642	14.294	1867	12	8.888	25.588	1941	16	6.389	5.153	2013	30	8.638	14.123	2085	20	22.702	23.108
1796*	40	9.280	14.520	1868	10	10.234	25.244	1942	12	17.448	5.318	2014	14	10.524	14.850	2086	34	23.721	23.973
1797	15	23.014	14.406	1869	20	11.690	25.744	1943	18	20.494	5.768	2015	16	10.780	14.987	2087	10	0.462	24.276
1798	11	23.491	14.342	1870	16	15.446	25.640	1944	12	20.831	5.601	2016	14	13.544	14.947	2088	14	6.222	24.578
1799	25	3.847	15.324	1871	30	15.780	25.913	1945*	42	21.722	5.159	2017	16	19.599	14.746	2089	28	6.333	24.357
1800	21	10.322	15.718	1872	21	16.216	25.962	1946*	38	22.604	5.324	2018	14	20.522	14.308	2090	14	6.942	24.476
1801	17	16.996	15.762	1873	12	18.318	25.232	1947	18	23.264	5.764	2019	28	22.995	14.450	2091	19	7.512	24.564
1802	12	17.017	15.212	1874	10	23.717	25.518	1948	16	25.123	5.616	2020	13	1.283	15.124	2092	13	8.967	24.464
1803	20	19.089	15.643					1949	14	1.128	6.856	2021	20	1.895	15.864	2093	23	9.760	24.124
1804	11	19.366	15.606					1950	36	2.543	6.106	2022	24	11.474	15.944	2094	14	14.040	24.777
1805	11	19.767	15.306					1951	25	4.220	6.006	2023	18	14.592	15.231	2095	14	17.802	24.664
1806	11	23.228	15.702					1952	17	7.127	6.766	2024	10	15.689	15.040	2096	21	19.982	24.586
1807	25	0.700	16.428					1953	22	13.206	6.370	2025	22	20.887	15.824	2097	36	20.712	24.024
1808	9	0.972	16.462					1954	21	14.972	6.694	2026	17	24.042	15.732	2098	18	22.738	24.060
1809	32	0.976	16.693					1955	18	15.327	6.836	2027	26	6.403	16.778	2099	18	22.818	24.208
1810	10	4.584	16.573					1956	10	17.322	6.074	2028	16	6.984	16.633	2100	13	23.427	24.766
1811	17	5.270	16.044					1957	8	22.411	6.748	2029	13	14.132	16.400	2101	18	23.726	24.773
1812	10	6.154	16.271					1958	11	7.203	7.942	2030	21	15.987	16.544	2102	18	2.474	25.674
1813	8	8.202	16.555					1959	23	7.834	7.860	2031	16	16.472	16.760	2103	32	5.242	25.427
1814	10	14.254	16.089					1960*	63	13.151	7.967	2032	16	18.424	16.864	2104	20	5.738	25.483
1815	19	15.332	16.526					1961	22	16.476	7.672	2033	16	0.279	17.366	2105	15	10.971	25.768
1816*	40	20.550	16.416					1962*	56	21.063	7.374	2034	16	16.347	17.358	2106	15	12.757	25.200
1817	8	2.318	17.670					1963	17	3.982	8.928	2035	13	0.403	18.859	2107	24	20.383	25.317
1818	18	8.488	17.094					1964	14	4.558	8.695	2036	10	1.994	18.278	2108	17	21.084	25.586
1819	8	13.810	17.213					1965	37	6.274	8.277	2037	18	2.919	18.916	2109	36	21.300	25.264
1820	8	17.515	17.480					1966	19	7.580	8.435	2038	15	3.108	18.780	2110	38	22.673	25.526
1821	34	18.640	17.239					1967	28	12.613	8.934	2039*	34	8.738	18.184	2111	17	24.571	25.562
1822	10	21.599	17.194					1968	13	3.084	9.376	2040	16	8.772	18.571				
1823*	40	0.119	18.156					1969	12	5.182	9.065	2041	16	12.464	18.510				
1824	10	12.371	18.893					1970*	72	6.942	9.810	2042	12	12.576	18.748				
1825	12	17.516	18.401					1971	15	8.908	9.864	2043	16	13.134	18.698				
1826	12	19.160	18.908					1972	23	10.781	9.458	2044	32	13.534	18.068				
1827	10	8.651	19.505					1973	16	19.588	9.058	2045	12	15.247	18.557				
1828	25	13.051	19.798					1974	20	0.780	10.328	2046	12	16.156	18.989				
1829	13	16.490	19.406					1975	14	9.273	10.280	2047	27	20.660	18.494				
1830	8	16.903	19.236					1976	16	10.216	10.055	2048	18	22.485	18.656				
1831	11	17.802	19.526					1977	16	16.329	10.106	2049	14	0.251	19.562				
1832	9	3.581	20.116					1978	10	17.026	10.762	2050	12	7.771	19.006				
1833	27	3.610	20.944					1979	14	5.184	11.340	2051	27	11.536	19.186				
1834	17	5.124	20.772					1980	14	5.342	11.736	2052	22	11.736	19.199				
1835	8	14.292	20.800					1981	16	5.471	11.714	2053	14	13.614	19.451				
1836	8	16.938	20.187					1982	24	6.028	11.852	2054	20	17.227	19.182				
1837	11	17.262	20.366					1983	15	6.292	11.804	2055	15	19.895	19.340				
1838	9	22.117	20.636					1984*	59	9.793	11.482	2056	15	0.828	20.806				
1839	13	2.258	21.206					1985	15	11.444	11.286	2057*	54	7.706	20.796				
1840	15	7.291	21.344					1986	13	17.138	11.806	2058	18	7.896	20.293				
1841	27	8.335	21.995					1987	30	17.719	11.795	2059*	45	12.464	20.453				
1842	15	23.424	21.036					1988	19	21.246	11.980	2060	16	12.920	20.966				
1843	12	25.304	21.522					1989	16	22.766	11.424	2061	31	20.070	20.352				
1844	10	25.545	21.350					1990	16	24.264	11.421	2062	31	24.104	20.518				
1845*	50	0.382	22.504					1991	12	2.367	12.224	2063	21	24.564	20.846				
1846	23	6.536	22.347					1992	12	11.699	12.748	2064	23	2.136	21.195				
1847	20	9.645	22.321					1993	17	11.742	12.696	2065	12	3.192	21.858				
1848	29	12.926	22.180					1994	31	15.448	12.173	2066	18	4.022	21.664				
1849	23	17.767	22.966					1995	18	18.254	12.410	2067	20	4.258	21.490				
1850	10	25.279	22.352					1996	27	18.268	12.394	2068	18	8.912	21.345				
1851	11	25.613	22.833					1997	14	5.928	13.546	2069	12	8.940	21.550				
1852	8	1.496	23.730					1998	14	8.373	13.523	2070	14	15.926	21.258				
1853	20	1.794	23.116					1999	16	11.193	13.294	2071	14	16.034	21.124				
1854	32	2.414	23.664					2000	12	13.803	13.498	2072	12	18.109	21.416				
1855	8	11.225	23.532					2001*	46	14.538	13.247	2073	16	20.912	21.308				
1856	16	13.300	23.128					2002	34	14.759	13.503	2074	36	23.333	21.708				
1857	9	15.236	23.174					2003	15	18.082	13.847	2075	36	25.822	21.633				
1858	9	15.718	23.570					2004	13	20.451	13.936	2076	13	4.006	22.496				
1859	20	17.399	23.468					2005	14	20.935	13.790	2077	20	4.339	22.970				
1860	8	0.049	24.165					2006	21	22.322	13.894	2078	27	6.103	22.190				
1861	17	2.849	24.427					2007	12	23.347	13.984	2079	54	24.218	22.204				

R.A. 1^h 12^m

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Provisional Constants.

A	B	C
-02578	+00168	+1918

D	E	F
-00221	-02554	-1620

Mag.=16.6-1.05√d

No.	d	x	y
1901*	40	4.982	0.275

2167	10	11.696	2.275	2239	12	17.234	11.568	2311	26	6.132	20.662	2456*	32	16.710	11.243
2168	8	17.458	2.854	2240	9	18.678	11.650	2312	12	8.332	20.356	2457*	37	20.313	11.365
2169	8	20.753	2.184	2241	9	21.951	11.569	2313	9	16.666	20.729	2458*	14	0.161	12.836
2170	15	24.476	2.518	2242	30	24.008	11.328	2314	15	18.004	20.944	2459	16	1.102	12.262
2171	8	0.546	3.100	2243	35	25.208	11.169	2315	11	21.997	20.063	2460	17	4.675	12.738
2172	18	0.952	3.738	2244	10	25.624	11.134	2316	8	22.754	20.550	2461*	32	7.665	12.785
2173	14	1.235	3.109	2245	31	10.807	12.410	2317	23	23.460	20.844	2462	12	7.778	12.218
2174*	37	3.278	3.965	2246	10	13.904	12.410	2318	20	23.756	20.362	2463	16	9.028	12.614
2175	26	3.966	3.774	2247*	35	17.600	12.034	2319	32	1.368	21.760	2464	12	12.570	12.187
2176	25	13.836	3.549	2248	11	19.292	12.599	2320	28	3.858	21.654	2465	23	18.371	12.136
2177	8	23.988	3.210	2249	15	19.915	12.700	2321	16	6.246	21.100	2466	26	20.602	12.360
2178	14	3.550	4.760	2250	16	21.210	12.958	2322	18	11.487	21.618	2467	14	21.289	12.690
2179	14	9.114	4.350	2251	15	22.422	12.681	2323*	40	12.364	21.140	2468*	58	21.442	12.868
2180	24	11.314	4.317	2252	17	23.371	12.118	2324	30	18.106	21.314	2469	34	25.500	12.322
2181	28	15.909	4.560	2253	19	0.256	13.960	2325	9	20.648	21.256	2470*	37	6.398	13.514
2182	10	19.192	4.519	2254	15	5.509	13.198	2326	41	2.259	22.244	2471	18	6.416	13.516
2183	10	22.495	4.949	2255	10	5.866	13.032	2327	14	6.964	22.834	2472*	31	7.904	13.374
2184	15	24.621	4.078	2256	26	7.688	13.100	2328	32	12.204	22.208	2473	20	11.059	13.175
2185	34	0.428	5.395	2257	23	12.124	13.377	2329	15	13.520	22.280	2474*	50	11.140	13.026
2186	11	1.094	5.822	2258	11	14.692	13.803	2330	10	16.974	22.854	2475	14	11.634	13.206
2187	20	1.484	5.047	2259	17	15.678	13.838	2331	26	17.284	22.060	2476*	35	13.198	13.930
2188	10	3.481	5.727	2260	10	16.595	13.075	2332	33	17.867	22.434	2477	17	22.752	13.643
2189	29	4.956	5.215	2261	16	16.748	13.823	2333*	44	19.176	22.595	2478	36	25.104	13.103
2190	20	5.967	5.307	2262	23	0.934	14.511	2334*	42	19.932	22.894	2479	19	6.776	14.044
2191	21	8.808	5.735	2263*	40	5.776	14.343	2335	14	0.761	23.172	2480*	44	8.740	14.866
2192	37	13.786	5.320	2264	12	6.492	14.632	2336	30	7.339	23.918	2481	14	4.630	15.454
2193*	44	13.964	5.812	2265	18	7.215	14.270	2337	40	8.978	23.128	2482	36	7.048	15.584
2194	10	17.927	5.564	2266	12	7.255	14.444	2338*	41	9.042	23.692	2483*	40	10.515	15.016
2195	17	18.450	5.953	2267	11	7.436	14.981	2339	12	9.424	23.002	2484	16	17.352	15.016
2196	12	21.966	5.099	2268	24	12.930	14.640	2340	17	10.958	23.858	2485	36	17.492	15.286
2197	17	5.024	6.754	2269	8	15.478	14.166	2341	8	20.787	23.930	2486	14	18.693	15.791
2198	14	5.553	6.192	2270	26	17.264	14.316	2342	9	22.194	23.664	2487	19	24.599	15.706
2199	8	12.706	6.527	2271	27	17.626	14.722	2343	10	24.774	23.664	2488	30	24.781	15.884
2200	32	16.724	6.928	2272	10	19.086	14.836	2344	8	0.626	24.318	2489	19	1.063	16.641
2201	27	20.974	6.275	2273	11	2.002	15.778	2345	10	0.814	24.123	2490	17	3.702	16.850
2202	11	24.934	6.096	2274	15	7.307	15.818	2346	13	0.896	24.270	2491	16	19.912	16.894
2203	27	5.438	7.993	2275	10	10.991	15.851	2347	10	1.506	24.819	2492	14	24.108	16.075
2204	25	7.422	7.642	2276	11	11.967	15.400	2348	24	1.790	24.020	2493	16	1.422	17.844
2205	13	8.696	7.680	2277	10	12.098	15.573	2349	8	1.807	24.822	2494	21	1.874	17.532
2206	18	9.099	7.147	2278	15	9.647	16.848	2350	16	8.680	24.698	2495*	82	2.255	17.902
2207	11	9.606	7.166	2279	10	12.694	16.993	2351*	44	9.382	24.136	2496	14	3.480	17.287
2208	23	11.794	7.241	2280*	32	13.645	16.616	2352	10	10.831	24.425	2497	21	9.469	17.524
2209*	40	20.697	7.674	2281	21	14.100	16.100	2353	10	13.996	24.054	2498	17	20.018	17.551
2210	32	23.244	7.816	2282	8	18.482	16.866	2354	30	21.184	24.366	2499	16	20.276	17.287
2211	30	23.611	7.190	2283	19	23.270	16.497	2355	30	22.006	24.176	2500	12	20.306	17.036
2212	10	25.947	7.232	2284	10	24.186	16.516	2356	10	24.898	24.756	2501	38	25.851	17.123
2213	21	5.892	8.798	2285	16	25.904	16.744	2357	26	0.762	25.590	2502	13	7.622	18.380
2214	30	12.944	8.730	2286*	31	4.029	17.252	2358	11	2.667	25.599	2503	16	11.896	18.334
2215	8	15.620	8.040	2287	25	7.562	17.532	2359	15	5.200	25.019	2504	21	18.211	18.100
2216	12	4.710	9.920	2288	27	8.812	17.262	2360	30	8.872	25.858	2505	17	19.723	18.590
2217	17	5.210	9.294	2289*	62	8.877	17.832	2361*	41	15.466	25.122	2506	57	0.178	19.394
2218	21	7.367	9.450	2290	17	23.609	17.702	2362	10	16.666	25.566	2507	23	0.565	19.520
2219	26	7.500	9.819	2291	21	24.065	17.396	2363	12	18.593	25.020	2508	19	3.462	19.911
2220	15	8.963	9.910	2292*	80	24.450	17.774	2364	8	18.990	25.602	2509	30	9.884	19.383
2221	20	13.506	9.260	2293	12	25.674	17.179	2365	22	19.152	25.885	2510	23	12.076	19.128
2222	23	20.067	9.382	2294	12	0.482	18.722	2366	12	23.916	25.106	2511	12	16.993	19.194
2223	41	21.997	9.891	2295	35	6.896	18.754					2512*	40	21.821	19.314
2224*	74	22.034	9.875	2296	12	10.554	18.202					2513	19	1.319	20.988
2225	26	24.541	9.143	2297	24	11.969	18.768					2514	17	1.608	20.500
2226	40	25.136	9.535	2298	10	16.925	18.259					2515	38	14.358	20.944
2227	33	13.370	10.118	2299	29	16.980	18.362					2516	36	25.492	20.607
2228	14	13.640	10.495	2300	15	19.646	18.758					2517	17	5.835	21.334
2229*	43	16.347	10.469	2301	9	22.371	18.163					2518	28	13.004	21.157
2230	17	23.262	10.770	2302	14	5.980	19.208					2519	16	15.320	21.420
2231	8	24.353	10.546	2303	11	8.986	19.015					2520	14	17.175	21.245
2232	40	25.654	10.168	2304	16	16.183	19.117					2521	12	14.640	22.494
2233	12	0.672	11.489	2305	8	21.924	19.092					2522	12	15.591	22.684
2234	12	2.164	11.464	2306*	56	22.351	19.237					2523	23	15.605	22.786
2235	18	4.068	11.439	2307	20	22.728	19.368					2524	21	24.696	22.717
2236	9	7.006	11.911	2308	22	25.618	19.800					2525	37	11.280	23.757
2237	9	8.614	11.410	2309	15	2.125	20.560					2526	17	20.501	23.468
2238	11	11.630	11.581	2310	15	2.592	20.884					2527	47	25.248	23.914

R.A. 1^h 28^m

Plate 886; 1916 Dec. 13.

Provisional Constants.

$$\begin{matrix} A & B & C \\ -0.2564 & +0.0847 & +0.2722 \end{matrix}$$

$$\begin{matrix} D & E & F \\ -0.0832 & -0.2558 & -1.102 \end{matrix}$$

Mag. = 15.9 - 1.05√d

No.	d	x	y
2401	32	11.538	0.112
2402	14	3.857	1.260
2403*	42	9.220	1.087
2404	19	12.610	1.977
2405	16	21.776	1.502
2406	42	22.244	1.385
2407	20	25.162	1.338
2408	20	2.070	2.642
2409	17	4.769	2.463
2410	37	6.588	2.703
2411	37	7.831	2.565
2412	36	21.372	2.025
2413	14	6.628	3.517
2414	12	1.118	4.166
2415	18	2.236	4.205
2416*	54	9.320	4.140
2417	17	10.579	4.740
2418	16	18.076	4.524
2419*	44	20.255	4.276
2420	37	21.576	4.396
2421	16	6.748	5.067
2422	13	7.866	5.834
2423*	42	11.002	5.157
2424	16	22.998	6.244</

2528	19	25.976	23.172	2588	18	1.918	6.056	2660	19	11.938	14.529	2732	10	0.210	23.959	2829	43	9.445	4.489
2529	34	3.930	24.600	2589	9	4.658	6.380	2661	10	12.572	14.224	2733*	45	2.945	23.950	2830	34	9.954	4.437
2530	26	6.350	24.090	2590	15	5.200	6.058	2662	19	14.852	14.541	2734	17	3.674	23.202	2831	8	10.721	4.022
2531	20	7.403	24.246	2591	20	8.495	6.985	2663	16	15.862	14.576	2735	13	9.590	23.120	2832	31	11.240	4.686
2532	38	13.246	24.624	2592*	46	11.299	6.490	2664	8	16.958	14.697	2736*	38	9.599	23.169	2833	8	13.863	4.806
2533*	52	19.580	24.163	2593*	44	15.358	6.806	2665	10	19.236	14.254	2737	13	0.992	24.216	2834	8	14.775	4.008
2534	34	4.265	25.486	2594	8	17.514	6.167	2666	12	23.920	14.224	2738	20	4.167	24.440	2835	29	15.754	4.537
2535*	54	11.576	25.108	2595	14	19.180	6.513	2667	14	2.260	15.742	2739	10	6.680	24.762	2836	22	19.446	4.787
2536	34	11.612	25.108	2596	9	21.903	6.756	2668	24	2.437	15.920	2740	10	6.874	24.340	2837	33	22.519	4.128
2537	14	20.139	25.174	2597	12	2.957	7.813	2669	10	4.290	15.373	2741	10	10.216	24.360	2838	8	24.540	4.694
2538	16	21.222	25.532	2598	17	9.858	7.838	2670	10	4.846	15.689	2742	44	21.414	24.883	2839	17	2.035	5.704
				2599	28	11.300	7.930	2671	10	6.097	15.601	2743	18	25.779	24.546	2840	15	3.405	5.777
				2600	8	11.758	7.772	2672	8	8.390	15.688	2744	10	6.128	25.462	2841	26	3.762	5.314
				2601	12	12.229	7.777	2673*	77	8.844	15.924	2745	16	10.030	25.105	2842	17	7.728	5.952
				2602	12	12.908	7.006	2674	11	9.588	15.116	2746	26	12.130	25.015	2843	31	9.395	5.311
				2603	14	14.320	7.410	2675	10	14.432	15.866	2747	10	13.732	25.161	2844*	41	12.781	5.394
				2604	10	17.106	7.430	2676	21	21.650	15.725	2748	10	18.320	25.196	2845	38	18.579	5.085
				2605	9	18.450	7.886	2677	30	25.469	15.345	2749	8	22.224	25.030	2846	10	20.424	5.716
				2606	37	21.960	7.495	2678	10	1.766	16.115	2750	21	22.510	25.544	2847	18	21.402	5.352
				2607	8	23.188	7.658	2679	10	4.400	16.026	2751	21	25.294	25.075	2848	34	23.414	5.224
				2608	8	6.674	8.763	2680	10	8.080	16.549					2849	12	24.080	5.696
				2609	10	6.715	8.425	2681	12	11.925	16.998					2850	33	24.252	5.728
				2610	9	14.241	8.206	2682	13	12.238	16.378					2851*	110	24.254	5.596
				2611*	49	16.180	8.659	2683	10	12.296	16.293					2852	10	18.018	6.450
				2612	15	21.578	8.920	2684	28	14.901	16.560					2853*	44	20.460	6.322
				2613*	39	1.942	9.993	2685	8	15.570	16.410					2854	8	21.886	6.356
				2614	10	4.318	9.152	2686*	77	16.778	16.992					2855	8	0.878	7.687
				2615*	29	6.312	9.915	2687*	37	17.872	16.016					2856	9	4.357	7.499
				2616*	40	8.702	9.585	2688	10	18.270	16.450					2857	13	7.353	7.244
				2617	11	13.774	9.195	2689	10	18.504	16.208					2858	22	9.019	7.303
				2618	11	17.353	9.690	2690	10	22.868	16.175					2859	14	21.936	7.696
				2619	10	17.984	9.685	2691	8	23.378	16.300					2860	35	3.804	8.464
				2620	8	19.888	9.674	2692*	38	3.512	17.152					2861	19	11.299	8.810
				2621	16	20.735	9.828	2693	12	10.643	17.160					2862	8	14.577	8.000
				2622	11	23.196	9.370	2694	29	21.928	17.921					2863	8	14.494	8.502
				2623	10	24.458	9.588	2695	25	22.856	17.152					2864	34	23.574	8.204
				2624	18	25.106	9.832	2696	19	23.254	17.206					2865	12	0.902	9.400
				2625	9	7.280	10.573	2697	8	1.274	18.095					2866	8	2.166	9.605
				2626*	26	11.961	10.037	2698	30	6.468	18.808					2867	28	2.817	9.843
				2627	10	12.328	10.040	2699	10	9.315	18.341					2868	39	5.194	9.676
				2628	10	15.204	10.741	2700*	50	14.924	18.151					2869	11	5.996	9.126
				2629	12	17.878	10.682	2701	8	19.028	18.954					2870	10	8.815	9.115
				2630	8	19.216	10.483	2702	23	19.160	18.967					2871*	55	9.636	9.062
				2631	10	20.980	10.420	2703	12	24.994	18.510					2872	12	10.072	9.556
				2632	20	23.070	10.106	2704	10	25.103	18.694					2873	12	15.688	9.410
				2633	17	25.732	10.644	2705	25	25.200	18.668					2874	17	16.948	9.358
				2634	21	18.258	11.486	2706	8	5.282	19.498					2875	8	20.421	9.502
				2635	8	19.558	11.870	2707	12	9.980	19.330					2876	22	0.785	10.136
				2636	9	20.970	11.860	2708	10	13.316	19.677					2877	18	3.452	10.648
				2637	20	24.145	11.384	2709	17	14.238	19.790					2878*	44	18.418	10.485
				2638	29	3.138	12.359	2710	11	14.418	19.260					2879	28	21.094	10.096
				2639	11	6.850	12.766	2711	14	15.252	19.908					2880	8	24.278	10.922
				2640	10	10.906	12.874	2712*	49	16.599	19.768					2881	49	25.036	10.998
				2641	11	11.692	12.730	2713	15	17.455	19.256					2882	26	1.872	11.401
				2642	10	13.278	12.870	2714	26	20.871	19.380					2883*	44	5.652	11.793
				2643	10	20.568	12.064	2715	22	21.410	19.964					2884	21	8.750	11.972
				2644	18	24.018	12.217	2716	24	3.176	20.638					2885	31	14.229	11.882
				2645	16	0.398	13.688	2717	10	5.214	20.188					2886	9	15.859	11.710
				2646	29	2.744	13.140	2718	11	7.604	20.912					2887	8	22.825	11.681
				2647*	44	8.484	13.644	2719	12	13.490	20.510					2888	28	1.750	12.240
				2648	8	6.680	13.056	2720	22	17.338	20.089					2889*	84	8.630	12.170
				2649	21	9.732	13.110	2721	8	17.854	20.031					2890	24	8.635	12.300
				2650*	68	9.990	13.056	2722	14	24.966	20.256					2891	13	9.666	12.744
				2651	20	14.983	13.674	2723	33	9.869	21.866					2892	25	9.936	12.608
				2652	8	15.300	13.701	2724	19	2.390	22.754					2893*	40	16.404	12.289
				2653	25	15.815	13.354	2725	8	7.551	22.071					2894	27	17.476	12.853
				2654*	39	19.852	13.668	2726	13	10.200	22.370					2895	8	17.783	12.702
				2655*	40	19.925	13.646	2727	11	14.402	22.615					2896	24	19.486	12.044
				2656	14	5.792	14.541	2728	12	14.699	22.860					2897	36	19.600	12.860
				2657	15	6.494	14.234	2729	19	16.792	22.116					2898	12	13.607	13.256
				2658	26	6.925	14.230	2730	10	19.512	22.926					2899	28	21.186	13.601
				2659	8	8.250	14.190	2731*	42	24.170	22.926					2900	16	1.678	14.246

R.A. 1^h 36^m

Plate 851; 1916 Nov. 27.

Provisional Constants.

A

B

C

−0.2561

+0.00246

+0.2359

D

E

F

−0.00258

−0.2563

−0.2627

Mag.=16.3−1.05√d.

No.	d	x	y
2551	9	1.674	0.372
2552	12	4.352	0.864
2553	19	7.211	0.936
2554	12	13.500	0.454
2555	11	21.194	0.141
2556	13	21.392	0.356
2557	32	25.494	0.491
2558	23	25.634	0.023
2559	8	2.114	1.137
2560	13	2.748	1.370
2561	15	4.358	1.494
2562	8	16.554	1.522
2563	31	18.656	1.743
2564	9	20.838	1.502
2565	11	3.729	2.177
2566	14	18.556	2.624
2567	9	18.983	2.441
2568	10	22.393	2.438
2569	10	4.514	3.781
2570	15	5.022	3.766
2571	14	5.610	3.1

2901	26	4.996	14.306	2973	66	13.786	23.762	3032	22	24.133	4.084	3104	16	22.658	17.842	R.A. 2^h 0^m Plate 835; 1916 Nov. 25. <i>Provisional Constants.</i> A B C -0.2551 +0.0288 +.2301 D E F -0.0295 -0.02570 -1.066 Mag. = 15.9 - 1.05√d
2902	14	5.710	14.809	2974	8	14.116	23.681	3033	15	24.429	4.788	3105	22	25.684	17.920	
2903	14	7.340	14.052	2975	17	20.223	23.171	3034	28	1.064	5.268	3106	15	6.058	18.006	
2904*	39	8.496	14.310	2976	10	21.912	23.092	3035	15	1.734	5.735	3107	22	10.750	18.157	
2905	25	8.764	14.206	2977	27	3.644	24.546	3036*	111	1.894	5.635	3108*	43	12.951	18.157	No. d x y 3201 10 2.180 0.963 3202 12 2.292 0.950 3203 10 5.594 0.534 3204 10 8.685 0.356 3205 27 13.760 0.992 3206 22 15.428 0.413 3207 23 18.998 0.786 3208* 37 22.423 0.034 3209 14 23.834 0.924 3210 8 0.380 1.909 3211 9 0.646 1.077 3212* 60 4.941 1.474 3213* 42 5.612 1.452 3214 10 6.598 1.982 3215 28 8.825 1.988 3216 12 11.836 1.102 3217 10 14.862 1.436 3218 8 20.601 1.868 3219 10 2.440 2.882 3220 9 9.580 2.635 3221* 60 24.897 2.259 3222 8 14.746 3.077 3223 10 15.344 3.579 3224 12 23.175 3.246 3225 23 1.806 4.256 3226 14 2.114 4.956 3227 10 15.224 4.722 3228 17 17.038 4.894 3229 8 20.164 4.223 3230* 51 21.849 4.428 3231 16 23.336 4.198 3232 21 24.700 4.150 3233 24 0.058 5.766 3234* 27 4.520 5.900 3235 22 7.672 5.135 3236 13 11.204 5.022 3237 32 23.074 5.958 3238 29 25.526 5.867 3239 17 2.485 6.114 3240* 60 9.136 6.866 3241 26 21.041 6.312 3242 15 21.474 6.265 3243 44 21.726 6.096 3244 8 3.416 7.196 3245 11 13.074 7.772 3246 20 13.148 7.485 3247 22 17.150 7.562 3248 38 23.183 7.006 3249 15 24.319 7.965 3250 20 2.191 8.667 3251 22 8.948 8.370 3252 10 13.199 8.698 3253 20 14.775 8.640 3254 8 20.330 8.767 3255 11 20.952 8.714
2906	23	10.306	14.928	2978	8	6.934	24.356	3037	12	6.153	5.490	3109	9	13.383	18.233	
2907	30	13.240	14.394	2979	29	9.123	24.698	3038	15	7.125	5.290	3110	23	14.550	18.062	
2908	31	17.854	14.062	2980	11	10.796	24.392	3039*	41	10.680	5.934	3111	11	14.692	18.098	
2909	33	24.672	14.476	2981	8	18.942	24.562	3040	12	15.264	5.478	3112	10	16.712	18.539	R.A. 1^h 52^m Plate 859; 1916 Nov. 28. <i>Provisional Constants.</i> A B C -0.2560 -0.0046 +.2265 D E F +0.0094 -0.02629 -0.3020 Mag = 16.1 - 1.05√d.
2910	37	3.234	15.350	2982	8	23.744	24.586	3041	24	22.365	5.566	3113	9	17.526	18.321	
2911	9	4.360	15.321	2983	25	0.386	25.580	3042	12	24.784	5.948	3114	30	17.920	18.128	
2912	10	4.818	15.016	2984	23	3.164	25.080	3043*	36	5.364	6.940	3115	10	18.478	18.374	
2913	10	11.837	15.124	2985	28	6.908	25.059	3044	20	10.178	6.148	3116*	46	19.244	18.790	No. d x y 3201 10 2.180 0.963 3202 12 2.292 0.950 3203 10 5.594 0.534 3204 10 8.685 0.356 3205 27 13.760 0.992 3206 22 15.428 0.413 3207 23 18.998 0.786 3208* 37 22.423 0.034 3209 14 23.834 0.924 3210 8 0.380 1.909 3211 9 0.646 1.077 3212* 60 4.941 1.474 3213* 42 5.612 1.452 3214 10 6.598 1.982 3215 28 8.825 1.988 3216 12 11.836 1.102 3217 10 14.862 1.436 3218 8 20.601 1.868 3219 10 2.440 2.882 3220 9 9.580 2.635 3221* 60 24.897 2.259 3222 8 14.746 3.077 3223 10 15.344 3.579 3224 12 23.175 3.246 3225 23 1.806 4.256 3226 14 2.114 4.956 3227 10 15.224 4.722 3228 17 17.038 4.894 3229 8 20.164 4.223 3230* 51 21.849 4.428 3231 16 23.336 4.198 3232 21 24.700 4.150 3233 24 0.058 5.766 3234* 27 4.520 5.900 3235 22 7.672 5.135 3236 13 11.204 5.022 3237 32 23.074 5.958 3238 29 25.526 5.867 3239 17 2.485 6.114 3240* 60 9.136 6.866 3241 26 21.041 6.312 3242 15 21.474 6.265 3243 44 21.726 6.096 3244 8 3.416 7.196 3245 11 13.074 7.772 3246 20 13.148 7.485 3247 22 17.150 7.562 3248 38 23.183 7.006 3249 15 24.319 7.965 3250 20 2.191 8.667 3251 22 8.948 8.370 3252 10 13.199 8.698 3253 20 14.775 8.640 3254 8 20.330 8.767 3255 11 20.952 8.714
2914*	46	13.572	15.410	2986	11	11.310	25.335	3045	9	2.346	7.129	3117	10	23.050	18.376	
2915	13	16.134	15.279	2987	46	15.665	25.520	3046	9	4.019	7.782	3118	10	0.328	19.603	
2916	16	21.035	15.082	2988	19	16.524	25.757	3047	10	6.957	7.119	3119	25	2.144	19.030	No. d x y 3201 10 2.180 0.963 3202 12 2.292 0.950 3203 10 5.594 0.534 3204 10 8.685 0.356 3205 27 13.760 0.992 3206 22 15.428 0.413 3207 23 18.998 0.786 3208* 37 22.423 0.034 3209 14 23.834 0.924 3210 8 0.380 1.909 3211 9 0.646 1.077 3212* 60 4.941 1.474 3213* 42 5.612 1.452 3214 10 6.598 1.982 3215 28 8.825 1.988 3216 12 11.836 1.102 3217 10 14.862 1.436 3218 8 20.601 1.868 3219 10 2.440 2.882 3220 9 9.580 2.635 3221* 60 24.897 2.259 3222 8 14.746 3.077 3223 10 15.344 3.579 3224 12 23.175 3.246 3225 23 1.806 4.256 3226 14 2.114 4.956 3227 10 15.224 4.722 3228 17 17.038 4.894 3229 8 20.164 4.223 3230* 51 21.849 4.428 3231 16 23.336 4.198 3232 21 24.700 4.150 3233 24 0.058 5.766 3234* 27 4.520 5.900 3235 22 7.672 5.135 3236 13 11.204 5.022 3237 32 23.074 5.958 3238 29 25.526 5.867 3239 17 2.485 6.114 3240* 60 9.136 6.866 3241 26 21.041 6.312 3242 15 21.474 6.265 3243 44 21.726 6.096 3244 8 3.416 7.196 3245 11 13.074 7.772 3246 20 13.148 7.485 3247 22 17.150 7.562 3248 38 23.183 7.006 3249 15 24.319 7.965 3250 20 2.191 8.667 3251 22 8.948 8.370 3252 10 13.199 8.698 3253 20 14.775 8.640 3254 8 20.330 8.767 3255 11 20.952 8.714
2917	10	25.242	15.490	2989	8	18.860	25.523	3048	20	7.976	7.960	3120	8	2.854	19.714	
2918	10	0.644	16.208					3049*	31	10.249	7.985	3121	32	3.281	19.432	
2919	9	3.864	16.654					3050	10	12.562	7.181	3122*	36	5.273	19.142	No. d x y 3201 10 2.180 0.963 3202 12 2.292 0.950 3203 10 5.594 0.534 3204 10 8.685 0.356 3205 27 13.760 0.992 3206 22 15.428 0.413 3207 23 18.998 0.786 3208* 37 22.423 0.034 3209 14 23.834 0.924 3210 8 0.380 1.909 3211 9 0.646 1.077 3212* 60 4.941 1.474 3213* 42 5.612 1.452 3214 10 6.598 1.982 3215 28 8.825 1.988 3216 12 11.836 1.102 3217 10 14.862 1.436 3218 8 20.601 1.868 3219 10 2.440 2.882 3220 9 9.580 2.635 3221* 60 24.897 2.259 3222 8 14.746 3.077 3223 10 15.344 3.579 3224 12 23.175 3.246 3225 23 1.806 4.256 3226 14 2.114 4.956 3227 10 15.224 4.722 3228 17 17.038 4.894 3229 8 20.164 4.223 3230* 51 21.849 4.428 3231 16 23.336 4.198 3232 21 24.700 4.150 3233 24 0.058 5.766 3234* 27 4.520 5.900 3235 22 7.672 5.135 3236 13 11.204 5.022 3237 32 23.074 5.958 3238 29 25.526 5.867 3239 17 2.485 6.114 3240* 60 9.136 6.866 3241 26 21.041 6.312 3242 15 21.474 6.265 3243 44 21.726 6.096 3244 8 3.416 7.196 3245 11 13.074 7.772 3246 20 13.148 7.485 3247 22 17.150 7.562 3248 38 23.183 7.006 3249 15 24.319 7.965 3250 20 2.191 8.667 3251 22 8.948 8.370 3252 10 13.199 8.698 3253 20 14.775 8.640 3254 8 20.330 8.767 3255 11 20.952 8.714
2920	17	10.885	16.580					3051	8	20.182	7.148	3123	18	7.320	19.906	
2921	17	14.650	16.804					3052	23	1.246	8.246	3124	9	10.368	19.104	
2922	33	17.840	16.095					3053*	52	10.398	8.848	3125	8	10.384	19.014	
2923	8	18.270	16.756					3054	10	15.134	8.480	3126	27	16.886	19.433	No. d x y 3201 10 2.180 0.963 3202 12 2.292 0.950 3203 10 5.594 0.534 3204 10 8.685 0.356 3205 27 13.760 0.992 3206 22 15.428 0.413 3207 23 18.998 0.786 3208* 37 22.423 0.034 3209 14 23.834 0.924 3210 8 0.380 1.909 3211 9 0.646 1.077 3212* 60 4.941 1.474 3213* 42 5.612 1.452 3214 10 6.598 1.982 3215 28 8.825 1.988 3216 12 11.836 1.102 3217 10 14.862 1.436 3218 8 20.601 1.868 3219 10 2.440 2.882 3220 9 9.580 2.635 3221* 60 24.897 2.259 3222 8 14.746 3.077 3223 10 15.344 3.579 3224 12 23.175 3.246 3225 23 1.806 4.256 3226 14 2.114 4.956 3227 10 15.224 4.722 3228 17 17.038 4.894 3229 8 20.164 4.223 3230* 51 21.849 4.428 3231 16 23.336 4.198 3232 21 24.700 4.150 3233 24 0.058 5.766 3234* 27 4.520 5.900 3235 22 7.672 5.135 3236 13 11.204 5.022 3237 32 23.074 5.958 3238 29 25.526 5.867 3239 17 2.485 6.114 3240* 60 9.136 6.866 3241 26 21.041 6.312 3242 15 21.474 6.265 3243 44 21.726 6.096 3244 8 3.416 7.196 3245 11 13.074 7.772 3246 20 13.148 7.485 3247 22 17.150 7.562 3248 38 23.183 7.006 3249 15 24.319 7.965 3250 20 2.191 8.667 3251 22 8.948 8.370 3252 10 13.199 8.698 3253 20 14.775 8.640 3254 8 20.330 8.767 3255 11 20.952 8.714
2924	36	0.641	17.184					3055	9	21.765	8.345	3127	15	17.748	19.294	
2925	29	1.040	17.234					3056	22	24.456	8.500	3128*	44	24.782	19.688	
2926	23	7.674	17.271					3057	8	2.197	9.170	3129	8	0.482	20.860	No. d x y 3201 10 2.180 0.963 3202 12 2.292 0.950 3203 10 5.594 0.534 3204 10 8.685 0.356 3205 27 13.760 0.992 3206 22 15.428 0.413 3207 23 18.998 0.786 3208* 37 22.423 0.034 3209 14 23.834 0.924 3210 8 0.380 1.909 3211 9 0.646 1.077 3212* 60 4.941 1.474 3213* 42 5.612 1.452 3214 10 6.598 1.982 3215 28 8.825 1.988 3216 12 11.836 1.102 3217 10 14.862 1.436 3218 8 20.601 1.868 3219 10 2.440 2.882 3220 9 9.580 2.635 3221* 60 24.897 2.259 3222 8 14.746 3.077 3223 10 15.344 3.579 3224 12 23.175 3.246 3225 23 1.806 4.256 3226 14 2.114 4.956 3227 10 15.224 4.722 3228 17 17.038 4.894 3229 8 20.164 4.223 3230* 51 21.849 4.428 3231 16 23.336 4.198 3232 21 24.700 4.150 3233 24 0.058 5.766 3234* 27 4.520 5.900 3235 22 7.672 5.135 3236 13 11.204 5.022 3237 32 23.074 5.958 3238 29 25.526 5.867 3239 17 2.485 6.114 3240* 60 9.136 6.866 3241 26 21.041 6.312 3242 15 21.474 6.265 3243 44 21.726

3256	8	0.124	9.742	3328	8	3.761	18.952	<div>R.A. 2^h 8^m</div> <div>Plate 843 ; 1916 Nov. 26.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>−02564 +00492 +3019</div> <div>D E F</div> <div>−00505 −02551 −2728</div> <div>Mag.=17.4−1.05√d</div>	3456	21	4.080	6.220	3528	19	18.660	12.865
3257	16	5.057	9.310	3329	11	4.933	18.438		3457	38	9.284	6.648	3529	14	20.687	12.934
3258	20	5.684	9.585	3330	10	5.290	18.214		3458	16	9.478	6.360	3530	27	22.366	12.435
3259	10	9.160	9.220	3331	8	11.130	18.175		3459	8	10.014	6.986	3531	50	22.720	12.407
3260	13	12.754	9.966	3332	10	11.900	18.660		3460	9	12.227	6.220	3532	29	3.779	13.958
3261*	52	12.956	9.800	3333*	44	12.596	18.356		3461	10	15.044	6.564	3533	10	7.357	13.380
3262	23	19.890	9.352	3334	16	15.822	18.536		3462	22	16.160	6.420	3534	14	8.600	13.608
3263	20	20.637	9.402	3335	9	17.060	18.875		3463	17	17.162	6.730	3535*	47	12.600	13.190
3264	16	21.186	9.752	3336	10	18.770	18.236		3464	23	20.212	6.254	3536	10	12.841	13.190
3265	11	21.474	9.038	3337*	41	2.670	19.851		3465	20	25.709	6.990	3537	18	15.040	13.182
3266	10	21.650	9.547	3338	9	6.739	19.308	3466	21	25.762	6.358	3538	14	19.118	13.810	
3267*	40	16.060	10.066	3339	12	7.834	19.780	3467	16	2.101	7.864	3539	9	23.928	13.525	
3268*	43	24.060	10.956	3340	9	16.062	19.198	3468	10	2.390	7.028	3540	21	24.578	13.790	
3269	14	3.893	11.614	3341	39	0.327	20.714	3469	10	3.846	7.610	3541*	92	9.750	14.865	
3270	12	6.192	11.274	3342	10	2.627	20.208	3470	10	5.602	7.108	3542*	78	11.180	14.676	
3271	23	8.662	11.742	3343	10	5.366	20.688	3471	12	8.420	7.506	3543	40	11.760	14.279	
3272	8	11.655	11.915	3344	21	6.574	20.206	3472	11	25.192	7.475	3544	14	12.237	14.369	
3273	10	12.460	11.549	3345	10	9.310	20.962	3473	33	25.593	7.691	3545	10	13.170	14.474	
3274*	36	14.706	11.544	3346	10	12.509	20.532	3474*	73	6.065	8.518	3546	25	13.228	14.224	
3275	22	17.084	11.396	3347	14	14.319	20.302	3475	32	8.740	8.851	3547	23	14.985	14.118	
3276	14	17.926	11.520	3348	19	15.172	20.036	3476	16	9.310	8.736	3548	8	15.297	14.100	
3277	9	23.096	11.732	3349*	38	21.432	20.614	3477	30	11.660	8.298	3549	23	20.070	14.809	
3278	20	24.260	11.584	3350	13	24.196	20.975	3478	40	12.286	8.120	3550	9	20.484	14.246	
3279	23	24.627	11.600	3351	11	0.088	21.614	3479	12	15.816	8.634	3551	24	21.877	14.310	
3280	17	0.275	12.174	3352	11	5.284	21.886	3480	35	16.498	8.612	3552	10	23.338	14.716	
3281	12	3.860	12.159	3353	15	7.533	21.795	3481	14	18.747	8.216	3553*	90	1.984	15.390	
3282	11	5.440	12.042	3354	10	10.637	21.210	3482	23	22.900	8.242	3554	25	8.400	15.248	
3283	11	10.104	12.154	3355	22	12.833	21.166	3483	14	24.880	8.624	3555*	64	17.984	15.390	
3284*	60	10.531	12.469	3356	27	18.994	21.815	3484	29	25.960	8.794	3556	14	22.950	15.030	
3285	11	11.470	12.716	3357	13	19.711	21.890	3485	11	2.312	9.444	3557	34	23.412	15.066	
3286	17	13.206	12.465	3358	29	1.991	22.596	3486	12	4.223	9.660	3558	22	0.860	16.155	
3287	9	14.645	12.056	3359	27	15.904	22.158	3487	41	13.550	9.591	3559	8	1.567	16.712	
3288	21	16.794	12.576	3360	24	15.952	22.720	3488	22	17.492	9.604	3560	63	2.360	16.206	
3289*	44	17.680	12.684	3361	8	17.406	22.399	3489	14	18.116	9.684	3561	10	6.648	16.428	
3290	21	18.322	12.339	3362	35	18.615	22.892	3490	12	19.003	9.744	3562	10	6.721	16.108	
3291*	41	23.332	12.012	3363*	42	21.914	22.384	3491	39	19.440	9.086	3563	11	16.592	16.198	
3292*	38	24.096	12.851	3364	9	24.040	22.894	3492	10	20.780	9.510	3564	10	23.108	16.242	
3293	11	4.370	13.312	3365	19	24.818	22.806	3493	12	21.722	9.040	3565	12	23.350	16.765	
3294	14	12.912	13.702	3366	14	1.576	23.897	3494	16	25.790	9.586	3566	19	13.160	17.063	
3295	22	13.486	13.584	3367*	35	2.226	23.235	3495*	71	1.874	10.857	3567	12	14.600	17.988	
3296	10	17.838	13.626	3368	20	13.375	23.068	3496	11	3.383	10.275	3568*	57	16.212	17.424	
3297*	40	20.120	13.820	3369	14	14.185	23.577	3497	19	8.366	10.600	3569	10	18.560	17.445	
3298	9	0.042	14.332	3370	22	20.514	23.120	3498	10	13.879	10.604	3570	12	20.068	17.060	
3299	20	3.315	14.321	3371	43	23.064	23.514	3499	22	15.130	10.376	3571	8	21.044	17.556	
3300	19	25.923	14.083	3372	15	5.027	24.606	3500	9	21.960	10.388	3572*	49	21.052	17.636	
3301	12	3.545	15.396	3373	12	14.014	24.315	3501	10	23.114	10.898	3573	15	22.450	17.610	
3302	8	3.544	15.012	3374	15	21.054	24.538	3502	10	25.626	10.788	3574	20	22.712	17.151	
3303	10	4.420	15.200	3375	11	21.536	24.390	3503	10	0.926	11.646	3575	17	22.967	17.190	
3304	8	6.155	15.940	3376	10	25.806	24.781	3504*	71	1.160	11.923	3576	18	23.570	17.268	
3305	12	6.982	15.736	3377	60	9.902	25.417	3505	33	2.086	11.482	3577	20	11.744	18.772	
3306*	33	8.922	15.438	3378	10	12.594	25.550	3506	43	2.452	11.495	3578	11	17.028	18.202	
3307	10	21.284	15.430	3379	11	13.251	25.569	3507	10	4.420	11.190	3579	10	17.408	18.840	
3308*	62	24.110	15.490	3380	9	14.800	25.462	3508	25	4.972	11.393	3580	12	18.350	18.969	
3309	9	12.080	16.596	3381	8	15.762	25.624	3509	11	6.810	11.112	3581	25	22.106	18.970	
3310	9	15.024	16.549	3382	38	16.152	25.184	3510	21	7.530	11.300	3582	31	22.994	18.110	
3311	11	18.524	16.458	3383	36	23.043	25.564	3511	10	8.016	11.487	3583	10	23.002	18.062	
3312	22	18.661	16.447					3512	44	8.092	11.935	3584	10	1.815	19.867	
3313	27	18.755	16.619					3513	12	8.628	11.830	3585	18	4.540	19.970	
3314	21	18.980	16.814					3514	10	10.310	11.590	3586	39	4.579	19.144	
3315	13	22.974	16.242					3515	9	10.780	11.482	3587	10	6.429	19.052	
3316	43	24.478	16.308					3516	11	12.750	11.570	3588	10	15.690	19.659	
3317	20	8.756	17.824					3517	18	13.226	11.960	3589	26	18.978	1	

3600	8	24.894	20.671	3655	38	12.624	1.287	3727	16	0.699	11.278	3799	36	2.982	22.263	3861	10	21.734	0.910
3601	23	4.070	21.530	3656	26	16.735	1.268	3728	38	7.658	11.737	3800	19	7.954	22.494	3862	10	0.352	1.396
3602*	51	4.310	21.976	3657	20	18.032	1.044	3729	17	8.078	11.924	3801	16	10.806	22.248	3863	20	2.958	1.960
3603	15	7.802	21.420	3658	38	19.318	1.040	3730	20	10.410	11.212	3802	13	14.244	22.564	3864	27	8.294	1.290
3604	15	7.957	21.113	3659	14	19.840	1.445	3731	18	17.120	11.092	3803	39	15.071	22.706	3865	23	13.751	1.480
3605	15	9.443	21.216	3660	12	22.648	1.464	3732	21	17.161	11.368	3804	21	17.031	22.174	3866	21	23.078	1.339
3606	27	12.257	21.526	3661	19	2.966	2.047	3733	22	19.226	11.186	3805*	96	19.184	22.022	3867	8	0.124	2.626
3607	9	16.150	21.724	3662	32	4.538	2.911	3734	23	19.571	11.162	3806	22	21.428	22.488	3868	12	1.628	2.055
3608	28	19.064	21.856	3663	13	17.866	2.850	3735	31	19.684	11.209	3807	37	23.813	22.293	3869*	44	4.826	2.577
3609	22	20.096	21.810	3664	21	23.918	2.130	3736*	49	23.218	11.446	3808	12	24.376	22.234	3870*	59	6.657	2.929
3610	28	25.270	21.900	3665	34	25.248	2.055	3737	46	0.316	12.798	3809	10	1.890	23.302	3871	9	7.435	2.324
3611	10	2.010	22.796	3666	18	2.886	3.831	3738	31	5.049	12.714	3810	34	3.318	23.710	3872	21	19.126	2.895
3612	26	2.792	22.700	3667	10	3.474	3.324	3739	18	6.811	12.875	3811	26	5.157	23.964	3873	13	19.680	2.034
3613	19	7.256	22.976	3668	16	3.702	3.075	3740	36	17.104	12.836	3812	25	5.510	23.124	3874	45	21.010	2.791
3614	11	18.106	22.478	3669	26	6.392	3.650	3741	18	22.938	12.614	3813	23	5.845	23.095	3875	19	23.742	2.927
3615	70	1.040	23.428	3670*	60	8.034	3.000	3742	23	6.280	13.463	3814	28	11.014	23.024	3876	25	23.811	2.645
3616	25	5.712	23.594	3671	29	9.485	3.754	3743	15	13.434	13.048	3815	41	12.464	23.100	3877	11	25.002	2.069
3617	16	6.740	23.190	3672	21	11.942	3.122	3744	34	13.724	13.082	3816	18	16.490	23.510	3878	10	5.728	3.380
3618	15	6.933	23.219	3673	21	15.242	3.963	3745*	96	16.703	13.960	3817	24	18.868	23.908	3879	10	6.329	3.138
3619	24	9.522	23.940	3674	12	2.800	4.936	3746	38	25.676	13.496	3818	20	20.082	23.614	3880	10	8.386	3.181
3620	25	12.165	23.438	3675*	58	4.651	4.755	3747	20	2.194	14.164	3819	30	21.254	23.960	3881	22	13.519	3.380
3621	19	18.522	23.276	3676*	59	5.186	4.036	3748	11	4.056	14.306	3820	21	25.402	23.636	3882	10	14.081	3.100
3622	24	20.040	23.860	3677	39	8.598	4.177	3749	12	9.886	14.038	3821	30	4.114	24.146	3883	12	16.030	3.598
3623	20	25.590	23.348	3678	37	9.077	4.866	3750	28	16.156	14.155	3822	25	5.074	24.398	3884	8	16.164	3.508
3624	8	2.721	24.232	3679	26	10.382	4.213	3751	17	25.076	14.536	3823	44	8.958	24.479	3885	20	17.272	3.719
3625	22	3.810	24.664	3680	23	10.986	4.562	3752	31	25.115	14.276	3824*	56	9.402	24.678	3886	18	17.575	3.352
3626	17	6.886	24.883	3681	10	16.254	4.026	3753	22	0.576	15.420	3825	38	11.649	24.061	3887	12	20.070	3.868
3627	13	8.060	24.569	3682	27	21.249	4.072	3754	14	0.964	15.102	3826	37	16.264	24.151	3888	10	22.077	3.776
3628*	57	8.346	24.184	3683	13	8.412	5.084	3755	29	1.044	15.450	3827	40	19.066	24.568	3889	25	5.420	4.535
3629	36	8.885	24.152	3684	44	15.319	5.090	3756	38	7.532	15.878	3828	42	22.232	24.134	3890	29	9.868	4.846
3630	9	14.335	24.274	3685*	58	15.598	5.804	3757	36	17.374	15.172	3829	19	9.884	25.078	3891	8	13.131	4.910
3631	10	17.311	24.268	3686	30	17.644	5.397	3758	22	19.764	15.706	3830	34	10.592	25.400	3892*	39	23.785	4.160
3632	11	19.204	24.654	3687	14	19.225	5.306	3759	32	21.842	15.378	3831	19	13.285	25.432	3893*	64	16.790	5.635
3633	14	20.338	24.444	3688	18	0.676	6.164	3760	39	23.128	15.766	3832	18	13.438	25.724	3894	41	17.888	5.946
3634	60	20.585	24.966	3689	22	3.294	6.714	3761	34	5.026	16.654	3833	36	15.285	25.393	3895*	46	20.410	5.672
3635	54	1.046	25.478	3690	22	7.910	6.925	3762	25	13.766	16.557	3834	22	21.494	25.446	3896	18	21.832	5.523
3636	15	8.660	25.851	3691	18	11.290	6.084	3763	42	17.867	16.010	3835	21	22.600	25.427	3897	18	25.830	5.832
3637	11	9.630	25.437	3692	12	14.514	6.744	3764	18	19.236	16.476	3836	46	24.586	25.977	3898	13	5.720	6.932
3638	13	11.032	25.154	3693	36	17.586	6.254	3765*	48	20.222	16.580					3899	18	7.922	6.185
3639	51	14.672	25.430	3694	24	18.011	6.901	3766	15	24.612	16.974					3900	8	14.741	6.608
3640	25	17.790	25.634	3695	34	18.028	6.942	3767	18	0.370	17.544					3901	8	24.330	6.119
3641	10	18.983	25.672	3696	16	18.597	6.658	3768	26	0.624	17.581					3902	12	25.920	6.849
3642	18	19.086	25.988	3697	31	19.084	6.985	3769	17	1.225	17.649					3903	15	2.699	7.253
3643	24	21.769	25.786	3698	24	20.462	6.266	3770	36	6.772	17.016					3904	17	2.929	7.914
				3699	18	2.735	7.836	3771	20	9.662	17.752					3905*	51	7.758	7.884
				3700	30	3.248	7.347	3772	14	12.100	17.302					3906	12	10.368	7.814
				3701	44	4.948	7.791	3773	26	17.254	17.332					3907	27	12.944	7.606
				3702	24	13.156	7.146	3774	41	23.314	17.400					3908	13	0.100	8.892
				3703	18	13.802	7.789	3775	19	23.335	17.718					3909	45	0.287	8.800
				3704*	56	14.226	7.576	3776	14	0.111	18.010					3910	11	1.936	8.223
				3705	37	18.129	7.113	3777	36	0.660	18.498					3911	8	6.394	8.208
				3706	13	21.183	7.164	3778*	46	9.208	18.893					3912	24	6.403	8.834
				3707	28	24.937	7.341	3779*	58	10.894	18.174					3913	23	7.175	8.387
				3708	30	0.454	8.634	3780	23	4.532	19.106					3914	11	9.118	8.532
				3709	18	2.435	8.996	3781	14	6.492	19.284					3915	10	12.400	8.841
				3710	36	3.138	8.052	3782	20	8.432	19.974					3916*	50	14.561	8.927
				3711	16	5.880	8.359	3783	16	9.732	19.570					3917	9	17.430	8.938
				3712	38	12.579	8.929	3784	37	12.651	19.435					3918	9	17.611	8.502
				3713	29	13.058	8.219	3785	31	13.272	19.511					3919	25	21.568	8.205
				3714	18	16.526	8.422	3786	16	15.565	19.394					3920	9	23.232	8.942
				3715	21	22.324	8.954	3787*	68	23.188	19.774					3921	9	25.892	8.278
				3716*	50	22.514	8.867	3788	36	25.606	19.583					3922	20	8.473	9.614
				3717	19	24.167	8.304	3789	25	4.151	20.394					3923	14	8.612	9.088
				3718	25	25.160	8.005	3790*	57	6.664	20.466					3924	9	11.198	9.060
				3719	19	3.359	9.945	3791	21	13.984	20.978					3925	8	22.370	9.129
				3720	32	3.519	9.148	3792	20	16.784	20.284					3926	17	23.700	9.154
				3721	25	5.794	9.017	3793	43	24.513	20.991					3927	22	25.210	9.176
				3722	37	14.090	9.568	3794	19	5.479	21.345					3928	22	1.744	10.166
				3723	14	6.469	10.610	3795	38	6.390	21.344					3929	8	10.254	10.732
				3724	16	8.294	10.384	3796	10	14.061	21.791					3930	17	12.470	10.920
				3725	20	9.865	10.150	3797	17	22.965	21.495					3931	10	16.834	

3933	20	25.118	10.320	4005	39	6.155	19.590	<div>R.A. 2^h 32^m</div> <div>Plate 836; 1916 Nov. 25.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—02546 +00285 +2246</div> <div>D E F</div> <div>—00324 —02564 —2632</div> <div>Mag.=16.2—1.05√d</div>	4156	26	8.522	6.276	4228	24	11.425	14.083
3934	8	25.471	10.098	4006	29	9.688	19.850		4157	14	9.356	6.653	4229	12	12.830	14.888
3935*	50	1.015	11.376	4007	12	14.070	19.858		4158	16	11.914	6.578	4230	8	21.867	14.860
3936	16	6.822	11.756	4008	10	25.224	19.750		4159	13	12.236	6.642	4231	27	21.978	14.067
3937	10	8.483	11.488	4009	39	2.410	20.905		4160	15	20.256	6.922	4232	29	22.480	14.389
3938	10	13.452	11.304	4010	12	6.238	20.760		4161	35	23.172	6.271	4233	27	25.786	14.186
3939	10	17.994	11.440	4011	35	8.384	20.928		4162	8	23.496	6.544	4234	14	0.087	15.251
3940	11	22.058	11.306	4012	11	11.739	20.019		4163	13	25.744	6.453	4235	31	3.254	15.865
3941	15	4.748	12.170	4013	11	14.160	20.062		4164*	59	11.256	7.484	4236	8	3.633	15.598
3942	10	4.964	12.854	4014	8	24.390	20.231		4165*	47	12.216	7.249	4237	20	10.966	15.330
3943	12	6.918	12.538	4015	10	0.870	21.423	4166*	42	16.744	7.563	4238	9	11.688	15.864	
3944	17	17.225	12.848	4016	8	2.178	21.444	4167	37	19.694	7.061	4239	18	16.468	15.712	
3945	10	18.440	12.510	4017	11	2.412	21.560	4168	13	23.570	7.198	4240	16	18.048	15.632	
3946	27	3.500	13.400	4018	26	4.448	21.528	4169	14	3.590	8.326	4241	9	23.535	15.640	
3947	8	4.530	13.162	4019	10	6.420	21.378	4170	29	5.874	8.710	4242	51	25.564	15.290	
3948	10	10.972	13.666	4020	35	16.401	21.400	4171	18	8.043	8.502	4243	27	0.982	16.802	
3949	15	18.026	13.750	4021	48	25.360	21.694	4172	8	13.874	8.210	4244	10	3.495	16.032	
3950	10	20.658	13.364	4022	28	1.726	22.216	4173	10	14.489	8.175	4245	30	7.614	16.776	
3951	16	21.810	13.950	4023	9	6.090	22.700	4174	11	16.672	8.933	4246	21	8.643	16.681	
3952	10	22.824	13.900	4024	10	7.476	22.300	4175	28	20.218	8.672	4247	13	11.845	16.144	
3953	12	22.918	13.275	4025	9	10.256	22.294	4176	22	24.133	8.326	4248	8	18.254	16.472	
3954	17	24.026	13.324	4026	13	10.965	22.832	4177	27	24.396	8.926	4249*	38	22.432	16.058	
3955	11	24.367	13.401	4027	26	12.460	22.874	4178	8	25.447	8.905	4250	10	23.805	16.380	
3956	11	2.910	14.447	4028	8	19.750	22.532	4179	8	0.070	9.212	4251	10	0.148	17.287	
3957	23	2.945	14.185	4029	15	3.328	23.544	4180	10	0.931	9.010	4252	29	0.218	17.008	
3958	19	8.000	14.496	4030	10	8.672	23.874	4181	26	1.404	9.219	4253	13	11.404	17.952	
3959	14	12.154	14.880	4031	19	8.978	23.065	4182	27	2.912	9.229	4254	12	16.408	17.266	
3960	10	12.560	14.050	4032	10	9.781	23.585	4183	9	3.066	9.320	4255	10	16.982	17.986	
3961	13	14.725	14.710	4033*	50	14.243	23.854	4184*	78	8.404	9.207	4256	15	18.839	17.000	
3962	35	16.080	14.112	4034	11	17.108	23.648	4185	29	17.523	9.750	4257	21	21.928	17.924	
3963	34	21.482	14.334	4035	10	18.606	23.726	4186	19	18.478	9.858	4258	12	24.148	17.606	
3964	10	22.744	14.916	4036	9	20.430	23.766	4187	13	19.700	9.340	4259	35	0.094	18.642	
3965	42	0.970	15.696	4037	12	21.221	23.866	4188	14	19.804	9.020	4260*	40	1.644	18.117	
3966	20	4.720	15.787	4038*	47	22.896	23.035	4189	8	22.015	9.570	4261	9	1.750	18.738	
3967	28	5.158	15.320	4039	29	23.939	23.242	4190	11	24.490	9.760	4262	35	2.391	18.398	
3968	10	8.598	15.210	4040	9	25.550	23.846	4191	18	25.786	9.425	4263	8	3.450	18.552	
3969	11	11.120	15.325	4041	36	0.162	24.074	4192	25	2.827	10.374	4264	17	13.212	18.836	
3970	8	11.484	15.040	4042	50	4.110	24.676	4193	11	3.453	10.154	4265	18	14.308	18.456	
3971	14	19.050	15.758	4043	14	7.850	24.964	4194	17	8.731	10.984	4266	25	19.470	18.416	
3972	13	22.332	15.175	4044*	78	13.549	24.878	4195	19	9.397	10.666	4267	21	22.550	18.828	
3973	35	25.497	15.816	4045	10	14.084	24.242	4196*	42	13.412	10.389	4268	40	25.516	18.030	
3974	20	4.350	16.394	4046	11	0.544	25.363	4197	10	16.747	10.870	4269	28	8.025	19.784	
3975	10	7.435	16.260	4047	31	2.537	25.890	4198	23	23.300	10.056	4270	14	10.286	19.702	
3976	10	8.670	16.132	4048	8	3.556	25.220	4199*	40	23.965	10.046	4271	13	14.757	19.130	
3977	10	15.744	16.390	4049	12	5.892	25.946	4200	8	3.440	11.246	4272	11	19.146	19.898	
3978	21	22.449	16.932	4050	10	7.960	25.822	4201	19	4.330	11.928	4273*	41	19.294	19.674	
3979	8	22.740	16.910	4051	13	11.001	25.433	4202	28	5.107	11.444	4274	13	5.075	20.342	
3980	21	23.212	16.731	4052	15	11.858	25.345	4203*	45	16.933	11.938	4275	8	13.082	20.910	
3981	48	1.171	17.329	4053	11	14.050	25.952	4204	26	18.404	11.580	4276	10	13.950	20.089	
3982	10	1.198	17.644	4054	9	14.110	25.074	4205	15	23.322	11.656	4277	13	14.418	20.742	
3983	10	4.474	17.458	4055	9	18.445	25.250	4206	10	24.126	11.434	4278	16	15.275	20.966	
3984	8	11.924	17.884	4056	26	20.594	25.330	4207	17	24.288	11.720	4279	9	16.065	20.506	
3985	15	12.348	17.578	4057	9	21.861	25.558	4208	32	25.284	11.646	4280	25	18.514	20.755	
3986	34	15.970	17.374	4058	12	23.670	25.633	4209*	41	3.945	12.798	4281	10	22.991	20.893	
3987*	41	20.840	17.422					4210	30	4.064	12.200	4282	15	23.493	20.712	
3988	8	22.374	17.208					4211	14	5.822	12.776	4283	15	23.988	20.666	
3989	10	7.681	18.521					4212	13	9.407	12.370	4284*	37	3.170	21.746	
3990	10	8.504	18.521					4213	9	13.669	12.912	4285	9	3.189	21.686	
3991	10	9.775	18.897					4214	10	15.307	12.863	4286*	40	4.034	21.586	
3992	10	14.632	18.534					4215	28	23.514	12.219	4287	14	5.115	21.976	
3993	13	16.898	18.000					4216	10	0.658	13.346	4288	17	7.778	21.180	
3994	18	16.960	18.900					4217	23	1.764	13.388	4289	10	16.226	21.560	
3995	8	18.280	18.830					4218	12	2.103	13.464	4290	27	22.		

4300	27	4.198	23.586	4375	12	9.406	3.242	4447	8	5.181	11.582	4519	18	5.444	20.962	4605	24	4.440	1.238
4301	29	7.200	23.260	4376	12	18.938	3.729	4448	8	5.710	11.646	4520	11	9.371	20.920	4606	10	6.229	1.185
4302	20	11.396	23.156	4377*	67	24.067	3.464	4449	39	6.285	11.735	4521	25	16.200	20.660	4607	9	6.774	1.622
4303	32	16.062	23.718	4378	11	10.074	4.485	4450*	41	10.186	11.381	4522	23	16.678	20.075	4608	40	7.495	1.709
4304	20	16.180	23.880	4379	32	10.366	4.316	4451	8	11.820	11.390	4523*	48	21.830	20.634	4609	22	11.707	1.152
4305	30	8.268	24.900	4380	13	12.179	4.896	4452	20	12.592	11.599	4524	8	24.224	20.982	4610	29	11.832	1.724
4306	8	11.315	24.525	4381	14	12.422	4.332	4453	13	14.672	11.545	4525	24	25.930	20.961	4611*	69	13.220	1.128
4307	16	12.216	24.485	4382	13	17.496	4.168	4454	23	20.414	11.619	4526*	49	8.988	21.707	4612*	38	14.090	1.715
4308	25	16.102	24.650	4383	13	18.648	4.955	4455	8	21.434	11.218	4527*	33	10.984	21.630	4613	15	14.625	1.186
4309	12	18.293	24.490	4384	11	19.174	4.417	4456	12	21.631	11.812	4528	28	13.122	21.048	4614	19	17.514	1.760
4310	27	23.422	24.919	4385	10	24.372	4.803	4457	22	1.246	12.360	4529	20	14.119	21.580	4615	18	19.441	1.430
4311	49	25.190	24.440	4386	30	3.440	5.666	4458	23	7.382	12.516	4530	18	17.602	21.552	4616	8	20.148	1.328
4312	20	1.518	25.699	4387	32	5.909	5.866	4459*	50	13.994	12.498	4531	24	21.020	21.466	4617	12	21.060	1.412
4313	32	5.074	25.206	4388*	52	8.495	5.016	4460*	47	20.644	12.170	4532*	51	21.265	21.098	4618	10	21.778	1.130
4314	8	8.452	25.429	4389	19	8.598	5.996	4461	51	23.066	12.079	4533*	54	22.220	21.357	4619	8	22.424	1.201
4315	8	9.042	25.376	4390	8	9.030	5.714	4462	36	23.586	12.392	4534	27	0.634	22.077	4620	13	22.733	1.165
4316	20	12.284	25.444	4391	27	15.848	5.932	4463	8	24.777	12.375	4535	11	3.833	22.502	4621	22	24.860	1.509
4317	38	17.414	25.819	4392	10	16.184	5.507	4464	8	6.518	13.036	4536	10	4.033	22.335	4622	50	25.488	1.077
4318	10	17.950	25.642	4393	10	17.252	5.747	4465	18	11.717	13.336	4537	26	5.550	22.410	4623	26	4.544	2.839
4319	21	20.956	25.239	4394	30	17.969	5.530	4466	13	12.893	13.574	4538	35	5.700	22.088	4624	16	7.364	2.143
4320	8	23.035	25.220	4395	27	21.860	5.373	4467	10	16.839	13.000	4539	8	7.582	22.616	4625	10	8.958	2.571
4321	31	24.955	25.410	4396	11	23.124	5.612	4468	34	19.856	13.066	4540	12	13.269	22.922	4626	13	11.625	2.143
4322	24	25.646	25.615	4397	35	0.852	6.412	4469	8	21.970	13.280	4541	13	15.564	22.020	4627	12	14.126	2.152
				4398	12	3.429	6.572	4470	21	0.229	14.540	4542*	49	18.267	22.613	4628*	60	1.690	3.508
				4399	16	11.350	6.152	4471	23	3.534	14.306	4543	12	19.917	22.393	4629*	54	3.650	3.629
				4400	9	13.742	6.380	4472	12	5.590	14.182	4544	23	20.040	22.565	4630	10	6.787	3.390
				4401	35	16.432	6.871	4473*	40	7.290	14.902	4545	8	24.128	22.403	4631	14	10.599	3.697
				4402	15	21.371	6.602	4474	14	12.034	14.485	4546	9	24.826	22.036	4632	20	14.440	3.183
				4403	31	24.098	6.872	4475*	46	13.800	14.860	4547	10	8.414	23.356	4633	16	15.456	3.514
				4404	12	1.259	7.333	4476	8	19.300	14.336	4548	8	10.775	23.128	4634*	52	18.150	3.112
				4405	13	5.732	7.428	4477	36	21.052	14.058	4549	24	24.784	23.184	4635	12	20.927	3.183
				4406	34	6.286	7.080	4478	12	21.952	14.214	4550*	52	3.020	24.566	4636	19	21.006	3.079
				4407	12	9.696	7.978	4479	8	1.297	15.783	4551	13	9.506	24.520	4637	9	23.672	3.163
				4408	8	14.730	7.058	4480*	60	3.314	15.410	4552*	126	14.146	24.125	4638	11	2.020	4.846
				4409	10	15.944	7.472	4481	8	9.642	15.102	4553	11	15.342	24.185	4639	10	6.464	4.613
				4410	20	17.602	7.222	4482	15	12.810	15.050	4554	15	16.132	24.144	4640	12	9.928	4.854
				4411	22	22.235	7.797	4483	20	16.657	15.731	4555	31	25.708	24.764	4641	28	11.208	4.090
				4412	20	1.834	8.459	4484	16	21.515	15.808	4556	24	1.264	25.061	4642	19	13.202	4.072
				4413	15	6.906	8.607	4485	9	21.708	15.167	4557	31	2.800	25.536	4643	8	20.866	4.524
				4414	12	12.188	8.169	4486	42	0.194	16.207	4558	23	3.494	25.740	4644	35	23.237	4.585
				4415	11	13.352	8.570	4487	8	1.573	16.517	4559	16	5.704	25.743	4645	18	25.165	4.466
				4416	17	14.761	8.062	4488*	40	4.394	16.826	4560	33	11.752	25.458	4646	36	25.479	4.474
				4417	16	15.267	8.706	4489	11	5.636	16.994	4561*	37	20.575	25.022	4647	10	0.776	5.670
				4418	8	21.064	8.084	4490	18	6.093	16.275	4562	55	22.941	25.366	4648	22	11.996	5.506
				4419	27	21.235	8.202	4491	9	15.026	16.424	4563	12	24.974	25.560	4649	10	15.760	5.534
				4420	15	21.296	8.484	4492	25	15.091	16.410	4564	12	25.992	25.974	4650	19	17.848	5.735
				4421	9	21.561	8.235	4493	18	15.840	16.672					4651	23	18.442	5.558
				4422	8	25.226	8.077	4494	17	19.746	16.115					4652	15	19.129	5.712
				4423	8	1.972	9.516	4495	11	25.983	16.117					4653	10	20.830	5.778
				4424	24	2.100	9.057	4496	10	1.923	17.737					4654*	49	22.119	5.225
				4425	16	3.496	9.548	4497	16	4.186	17.710					4655	32	1.767	6.914
				4426	25	12.238	9.251	4498	13	6.263	17.018					4656	8	2.486	6.678
				4427	28	14.434	9.560	4499	8	15.284	17.282					4657	34	9.450	6.275
				4428	37	15.923	9.810	4500	36	15.970	17.858					4658	8	9.684	6.220
				4429	13	16.470	9.119	4501	24	18.066	17.370					4659	8	10.054	6.150
				4430	40	22.410	9.434	4502*	45	18.218	17.882					4660	18	11.186	6.098
				4431	19	1.012	10.198	4503	13	23.584	17.630					4661	19	11.244	6.799
				4432*	41	1.674	10.182	4504	33	23.590	17.070					4662	19	12.408	6.570
				4433	17	9.326	10.832	4505	13	0.337	18.974					4663	10	12.876	6.179
				4434	28	10.904	10.324	4506*	46	3.293	18.154					4664	37	15.574	6.530
				4435	13	14.684	10.273	4507	8	3.934	18.426					4665	27	16.884	6.618
				4436	21	16.480	10.110	4508	13	6.153	18.859					4666	13	19.132	6.088
				4437	8	19.346	10.487	4509	10	14.030	18.778					4667	32	20.660	6.500
				4438	29	19.376	10.900	4510	32	14.248	18.958					4668*	45	3.696	7.442
				4439	13	19.581	10.435	4511	15	23.043	18.583					4669	10	4.700	7.977
				4440*	48	20.740	10.012	4512	19	25.656	18.428					4670	24	8.164	7.124
				4441	9	24.183	10.918	4513	17	6.457	19.134					4671	9	15.036	7.023
				4442	11	1.047	11.798	4514	8	13.463	19.952					4672	9	15.451	7.045
				4443	8	1.846	11.567	4515	26	16.810	19.974					4673	13	16.794	7.722
				4444	12	2.018	11.856	4516	16	19.466	19.326					4674	9	19.826	7.348
				4445	30	3.012	11.772	4517	11	1.296	20.854					4675	12	21.565	7.368
				4446	8	4.638	11.564	4518	13	1.793	20.800					4676	31	25.601	7.462

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4677	10	2.915	8.106	4749	10	10.270	15.952	4821	13	10.994	23.554	4869*	66	10.254	2.205	4941	14	22.860	10.404
4678*	48	4.694	8.956	4750	14	15.440	15.646	4822	8	11.342	23.822	4870	14	10.744	2.934	4942	29	24.968	10.361
4679	12	8.654	8.940	4751	30	18.150	15.296	4823	13	11.520	23.900	4871	17	14.224	2.872	4943	10	0.220	11.930
4680	32	10.384	8.031	4752	9	18.244	15.762	4824	10	19.938	23.146	4872	23	17.090	2.159	4944	24	6.148	11.156
4681*	47	10.609	8.550	4753	18	3.767	16.136	4825	8	25.682	23.484	4873	21	19.444	2.321	4945	17	8.336	11.995
4682	36	15.236	8.562	4754	36	5.509	16.234	4826	45	3.600	24.786	4874	14	19.685	2.972	4946	14	8.550	11.906
4683	12	16.545	8.604	4755	9	6.496	16.879	4827	26	3.924	24.222	4875	13	20.568	2.447	4947	40	8.667	11.966
4684	28	17.359	8.650	4756	21	6.729	16.485	4828	14	6.346	24.468	4876	8	21.626	2.370	4948	32	10.827	11.256
4685	38	0.108	9.496	4757	9	7.135	16.303	4829	19	6.627	24.380	4877	18	24.196	2.227	4949	18	10.999	11.874
4686	15	5.485	9.275	4758	8	9.460	16.215	4830	9	10.296	24.330	4878	24	25.485	2.348	4950	14	19.815	11.332
4687	22	6.666	9.299	4759	10	13.354	16.125	4831	38	11.525	24.372	4879	32	5.284	3.530	4951	18	20.899	11.206
4688	23	7.671	9.634	4760	10	21.231	16.900	4832	25	18.578	24.620	4880	40	14.716	3.319	4952*	40	24.761	11.884
4689	22	7.938	9.862	4761	35	1.384	17.120	4833	32	18.942	24.566	4881	35	0.915	4.605	4953	12	4.710	12.180
4690	12	11.674	9.410	4762	14	1.385	17.680	4834	64	0.830	25.425	4882	24	2.844	4.458	4954	11	5.900	12.714
4691	17	12.822	9.584	4763*	54	12.304	17.428	4835	9	1.154	25.413	4883	38	3.156	4.466	4955	8	7.851	12.674
4692	9	13.426	9.731	4764	10	18.576	17.848	4836	13	2.876	25.592	4884	26	4.360	4.650	4956	11	10.656	12.424
4693	18	14.070	9.470	4765	10	19.504	17.698	4837	24	3.896	25.994	4885	19	6.898	4.266	4957	8	13.855	12.318
4694	21	17.269	9.774	4766	23	21.985	17.737	4838	8	5.790	25.164	4886	10	9.234	4.270	4958	11	14.408	12.758
4695	11	20.136	9.420	4767	9	24.091	17.586	4839	15	7.550	25.724	4887	25	11.419	4.686	4959	22	16.697	12.169
4696	8	21.655	9.316	4768	10	24.362	17.280	4840	23	9.310	25.690	4888	15	12.554	4.868	4960	15	24.604	12.988
4697	8	21.968	9.850	4769	12	24.494	17.562	4841	32	11.172	25.193	4889	26	15.650	4.728	4961	12	0.452	13.050
4698	10	1.900	10.964	4770	8	0.070	18.692	4842	22	11.220	25.690	4890	25	18.318	4.820	4962	8	1.731	13.343
4699	10	6.392	10.006	4771	8	0.304	18.738	4843	19	12.678	25.094	4891	13	19.126	4.754	4963	8	3.485	13.368
4700	11	11.424	10.008	4772	18	0.855	18.642	4844	24	13.565	25.086	4892	33	20.074	4.378	4964*	39	6.236	13.098
4701	8	11.556	10.216	4773	9	1.345	18.954	4845	10	13.934	25.958	4893	24	20.884	4.715	4965	28	8.851	13.140
4702	17	13.659	10.080	4774	8	3.116	18.430	4846	46	15.564	25.360	4894	15	21.690	4.439	4966	9	13.979	13.013
4703	9	13.853	10.464	4775	8	3.228	18.958	4847	22	18.297	25.154	4895	29	7.440	5.950	4967*	38	15.406	13.790
4704	8	14.372	10.751	4776	18	3.468	18.452	4848	8	22.146	25.896	4896	14	7.718	5.450	4968	26	18.030	13.144
4705	10	15.102	10.912	4777	16	6.350	18.245	4849	60	23.448	25.450	4897	9	10.406	5.434	4969*	58	22.350	13.944
4706	37	15.132	10.868	4778	27	9.534	18.998					4898	26	17.460	5.005	4970	9	22.620	13.232
4707	9	17.612	10.622	4779	8	12.284	18.996					4899	23	17.964	5.082	4971	10	4.096	14.947
4708	8	17.831	10.576	4780	11	13.008	18.438					4900	25	18.574	5.523	4972	15	15.074	14.569
4709	12	17.950	10.800	4781	10	14.500	18.536					4901	9	20.794	5.885	4973	31	22.595	14.202
4710	9	19.946	10.906	4782	14	15.318	18.613					4902	9	7.958	6.948	4974	10	23.880	14.510
4711	16	6.029	11.784	4783	8	15.418	18.166					4903	11	16.257	6.782	4975	8	4.729	15.556
4712	9	10.406	11.585	4784	12	19.775	18.955					4904	29	19.330	6.538	4976*	51	14.326	15.505
4713	34	12.182	11.754	4785	20	21.176	18.736					4905	38	20.849	6.624	4977	38	14.540	15.840
4714	13	12.585	11.456	4786	20	21.724	18.990					4906	29	21.164	6.204	4978	14	14.566	15.836
4715	10	14.470	11.711	4787	10	24.479	18.881					4907	35	3.315	7.451	4979	8	25.590	15.748
4716	15	18.942	11.717	4788	10	17.803	19.234					4908	31	3.828	7.229	4980	8	8.534	16.272
4717	19	20.730	11.016	4789	24	20.498	19.702					4909	10	5.308	7.945	4981	11	11.998	16.077
4718	10	22.451	11.902	4790	23	21.285	19.740					4910*	36	5.378	7.810	4982	21	17.756	16.722
4719	42	0.794	12.133	4791	28	3.772	20.982					4911	14	5.429	7.222	4983	13	18.992	16.342
4720	36	1.321	12.442	4792	24	14.232	20.668					4912	16	6.686	7.641	4984	24	23.700	16.990
4721	10	2.520	12.408	4793	9	14.597	20.324					4913	8	9.900	7.182	4985	9	1.928	17.595
4722	8	2.620	12.110	4794	11	22.004	20.090					4914	28	14.465	7.910	4986	8	2.025	17.595
4723	20	5.973	12.356	4795	20	25.849	20.106					4915	9	14.880	7.309	4987	15	2.330	17.564
4724	42	6.567	12.082	4796	52	0.062	21.424					4916	12	15.448	7.580	4988	25	17.858	17.974
4725	8	7.447	12.017	4797	9	2.066	21.025					4917	32	21.608	7.210	4989	8	18.530	17.430
4726	8	14.281	12.622	4798	13	4.334	21.495					4918	39	23.816	7.068	4990	20	19.068	17.865
4727	20	19.374	12.662	4799	10	7.800	21.330					4919	8	9.232	8.902	4991*	50	20.050	17.892
4728	20	5.015	13.594	4800	21	10.122	21.494					4920	8	13.356	8.590	4992	9	20.508	17.358
4729	10	11.874	13.255	4801*	56	11.178	21.532					4921	8	13.812	8.139	4993	19	24.140	17.342
4730	12	14.343	13.366	4802	34	19.732	21.644					4922*	65	14.896	8.080	4994	9	2.330	18.881
4731	8	14.542	13.622	4803	8	21.071	21.440					4923	31	18.603	8.600	4995	31	6.120	18.698
4732	35	19.650	13.072	4804	8	1.992	22.445					4924	20	19.414	8.643	4996*	45	9.671	18.704
4733	9	21.664	13.870	4805	10	2.684	22.070					4925	10	24.674	8.323	4997	21	14.787	18.870
4734	12	22.673	13.026	4806	14	4.835	22.275					4926*	33	8.322	9.221	4998	8	16.185	18.957
4735	9	23.947	13.335	4807*	51	5.650	22.824					4927	18	12.836	9.466	4999*	39	17.990	18.599
4736	8	25.700	13.380	4808	11	8.880	22.828					4928	38	13.152	9.324	5000	36	20.934	18.763
4737	29	5.809	14.427	4809*	47	13.285	22.508					4929	16	15.052	9.461	5001	21	22.414	18.100
4738	10	10.360	14.184	4810	39	16.852	22.680					4930	22	20.201	9.194	5002	40	6.188	19.541
4739	15	11.556	14.078	4811	29	17.332	22.862					4931	13	21.400	9.686	5003	33	8.896	19.109
4740	26	12.423	14.043	4812	26	22.916	22.397					4932	9	22.375	9.276	5004	8	12.384	19.666
4741	11	13.966	14.212	4813	33	2.654	23.220					4933	14	25.692	9.483	5005	10	13.700	19.452
4742	8	14.843	14.972	4814	18	6.522	23.276					4934	10	6.242	10.870	5006	35	15.912	19.590
4743	20	16.170	14.788	4815	10	6.620	23.766					4935*	39	9.716	10.262	5007*	76	16.966	19.470
4744	19	16.568	14.008	4816	8	6.975	23.484					4936	34	9.850	10.844	5008	11	18.488	19.026
4745	22	19.513	14.115	4817	38	7.118	23.215												

5013	28	7.756	20.248	5106	24	22.049	1.714	5178	20	20.430	11.054	5250	9	18.240	18.244
5014	28	15.766	20.516	5107	13	22.084	1.101	5179	30	21.065	11.410	5251	39	1.338	19.239
5015	10	16.954	20.144	5108	15	1.784	2.069	5180	27	23.326	11.060	5252	15	2.746	19.686
5016	10	21.895	20.474	5109	26	3.074	2.177	5181	26	24.694	11.784	5253	18	5.022	19.082
5017	10	22.126	20.726	5110	17	5.174	2.460	5182	16	2.296	12.826	5254	12	9.475	19.424
5018	10	4.368	21.626	5111	26	7.584	2.059	5183	10	3.995	12.902	5255	35	10.075	19.561
5019	34	4.714	21.089	5112	12	9.064	2.813	5184	35	8.047	12.479	5256	8	14.764	19.765
5020	10	17.180	21.554	5113	21	14.604	2.015	5185	9	8.458	12.946	5257	12	15.852	19.185
5021	29	17.909	21.751	5114	24	14.866	2.096	5186	8	11.711	12.966	5258	17	20.040	19.026
5022	11	18.068	21.440	5115*	44	23.992	2.329	5187	8	14.422	12.262	5259*	42	24.266	19.136
5023	12	19.232	21.934	5116	28	24.052	2.788	5188	13	16.296	12.604	5260	12	24.746	19.062
5024	41	21.472	21.438	5117	26	3.730	3.551	5189	8	22.354	12.028	5261	31	25.210	19.160
5025	45	25.190	21.338	5118	17	3.915	3.242	5190	17	23.252	12.468	5262	9	0.392	20.549
5026	28	0.808	22.417	5119*	47	4.816	3.234	5191	60	25.558	12.300	5263	11	4.980	20.594
5027	26	5.332	22.166	5120	9	8.734	3.987	5192	24	25.986	12.896	5264	18	5.784	20.072
5028*	38	5.360	22.294	5121	28	13.724	3.174	5193	70	0.045	13.802	5265	21	5.805	20.373
5029	30	9.490	22.406	5122	9	18.482	3.350	5194	8	0.312	13.089	5266	28	10.360	20.672
5030	8	16.575	22.768	5123	14	18.724	3.312	5195	19	5.164	13.628	5267	22	16.614	20.852
5031	23	17.064	22.633	5124	9	22.116	3.795	5196	10	10.844	13.688	5268*	58	19.266	20.386
5032*	45	19.026	22.177	5125	11	8.024	4.327	5197	8	12.370	13.162	5269	15	21.444	20.266
5033*	53	19.946	22.948	5126	32	12.200	4.410	5198	28	16.614	13.980	5270	22	1.212	21.864
5034	21	23.431	22.016	5127	28	14.340	4.730	5199*	42	21.680	13.266	5271	15	2.545	21.908
5035	14	24.764	22.074	5128	11	16.900	4.432	5200	31	23.256	13.730	5272	48	2.962	21.168
5036	16	13.938	23.688	5129	15	22.954	4.826	5201	27	23.700	13.074	5273	29	12.822	21.492
5037	8	14.910	23.222	5130	32	25.174	4.072	5202	20	24.998	13.836	5274*	47	15.842	21.934
5038	22	19.865	23.100	5131	11	5.255	5.264	5203	11	25.174	13.336	5275	33	16.161	21.556
5039	8	21.166	23.425	5132	38	6.482	5.324	5204	31	0.296	14.058	5276	22	19.882	21.786
5040	44	24.238	23.962	5133	30	13.684	5.361	5205	8	1.584	14.356	5277	28	20.226	21.104
5041	24	25.183	23.814	5134	13	15.601	5.150	5206	14	3.916	14.912	5278	9	21.058	21.600
5042	20	4.184	24.378	5135	31	16.067	5.812	5207	13	4.422	14.712	5279	13	22.084	21.502
5043	21	4.525	24.792	5136	9	16.916	5.896	5208*	40	5.321	14.604	5280	60	24.948	21.764
5044	10	6.154	24.034	5137*	48	20.018	5.716	5209	8	9.656	14.653	5281	11	2.744	22.745
5045	34	9.687	24.996	5138	42	1.446	6.916	5210	9	15.586	14.506	5282	18	6.836	22.063
5046	30	11.832	24.000	5139	9	1.816	6.084	5211*	40	16.726	14.380	5283	14	11.074	22.064
5047	8	13.763	24.708	5140	38	13.322	6.784	5212	13	20.126	14.610	5284	28	20.856	22.496
5048	12	14.486	24.600	5141*	42	19.106	6.764	5213	9	21.718	14.212	5285*	41	21.966	22.974
5049	20	19.546	24.460	5142	11	2.752	7.581	5214	38	22.969	14.875	5286	12	22.676	22.654
5050	47	1.372	25.463	5143	10	19.516	7.520	5215	8	3.310	15.576	5287	13	24.876	22.716
5051	24	10.296	25.244	5144	8	19.900	7.965	5216	28	5.290	15.662	5288	18	25.110	22.440
5052	8	12.773	25.504	5145	15	21.234	7.576	5217	17	5.846	15.626	5289	60	25.388	22.956
5053	18	14.254	25.818	5146	24	21.792	7.720	5218	30	9.330	15.656	5290	47	2.035	23.804
5054	30	21.804	25.756	5147	29	24.510	7.710	5219	14	10.382	15.652	5291	25	2.980	23.644
5055	33	25.291	25.674	5148	18	6.349	8.766	5220	14	12.124	15.527	5292	19	7.995	23.689
				5149	37	8.810	8.353	5221	17	13.648	15.926	5293	23	10.190	23.019
				5150	8	7.751	8.202	5222	18	15.290	15.076	5294	22	23.104	23.903
				5151	10	8.194	8.515	5223	22	19.976	15.364	5295	15	24.424	23.109
				5152	32	16.477	8.225	5224	41	21.408	15.238	5296	20	25.358	23.428
				5153	10	0.028	9.134	5225	10	22.292	15.860	5297	8	0.341	24.570
				5154	19	3.350	9.310	5226	17	24.515	15.632	5298	11	3.814	24.255
				5155	9	9.040	9.020	5227	21	1.428	16.834	5299	8	5.790	24.678
				5156*	40	10.866	9.092	5228	28	6.727	16.519	5300	30	7.036	24.290
				5157	30	13.686	9.785	5229*	45	9.966	16.975	5301	30	10.865	24.890
				5158	27	16.948	9.872	5230	24	10.992	16.142	5302	8	17.750	24.021
				5159	13	0.524	10.260	5231	11	12.230	16.116	5303	15	18.467	24.970
				5160	33	2.633	10.198	5232	10	13.813	16.092	5304	39	3.108	25.505
				5161	9	4.057	10.294	5233	23	14.818	16.986	5305	16	6.230	25.433
				5162	10	4.062	10.734	5234	29	15.914	16.464	5306	35	6.286	25.494
				5163	37	4.858	10.964	5235	20	16.750	16.949	5307	62	7.987	25.850
				5164*	65	7.353	10.628	5236	15	25.555	16.700	5308	28	8.055	25.228
				5165	8	8.626	10.038	5237	15	0.154	17.959	5309	29	9.450	25.541
				5166	9	20.000	10.618	5238	20	1.873	17.184	5310	36	11.158	25.827
				5167*	57	20.106	10.036	5239*	46	15.668	17.450	5311	27	15.931	25.276
				5168	14	22.451	10.186	5240	28	21.395	17.200	5312	11	19.425	25.307
				5169	8	2.096	11.028	5241	26	25.150	17.134	5313	36	21.370	25.150
				5170*	44	2.440	11.722	5242	34	25.271	17.332	5314	12	24.171	25.310
				5171	20	4.169	11.468	5243	8	3.677	18.815				
				5172	30	8.394	11.858	5244	10	7.842	18.005				
				5173	19	10.220	11.830	5245	25	11.836	18.250				
				5174	23	12.804	11.052	5246	34	13.252	18.428				
				5175	10	14.142	11.371	5247	11	13.856	18.040				
				5176	22	16.690	11.082	5248	27	13.936	18.546				
				5177	13	18.384	11.028	5249	10	16.635	18.894				

R.A. 3^h 12^m

Plate 826 ; 1916 Nov. 20.

Provisional Constants.

A B C
 -0.2556 +0.0159 +.2601

D E F
 -0.0127 -0.2595 -2419

Mag.=17.1-1.05√d

No.	d	x	y
5351*	34	1.246	0.663
5352	18	5.818	0.349
5353	33	12.020	0.719
5354	20	13.748	0.054
5355	32	14.851	0.950
5356	8	18.424	0.675
5357	13	23.942	0.238
5358	9	24.597	0.277
5359	12	25.714	0.072
5360*	50	6.325	1.182
5361*	49	1.714	2.559
5362	16	9.302	2.079
5363	33	19.224	2.321
5364	9	20.908	2.864
5365	21	22.033	2.066
5366	26	25.186	2.315
5367	28	1.783	3.015
5368	26	3.994	3.764
5369*	85	10.560	3.045
5370	8	18.724	3.472
5371	13	20.482	3.776
5372	11	23.708	3.103
5373	30	2.918	4.287
5374	12	11.552	4.498
5375	34	16.136	4.940
5376	10	17.644	4.041
5377	10	19.390	4.498
5378	27	3.757	5.055
5379*	67	4.722	5.526
5380	21	5.070	5.491
5381	8	23.019	5.531
5382	14	24.898	5.622
5383	20	4.693	6.622
5384*	45	5.761	6.256
5385	9	7.294	

5406	51	5.898	10.113	5478*	90	9.960	18.794	R.A. 3^h 20^m Plate 811; 1916 Nov. 18. <i>Provisional Constants.</i> A B C -02560 +00418 +.1376 D E F -00399 -02574 -1318 $Mag. = 17.6 - 1.05\sqrt{d}$	5606	10	22.280	6.710	5678	12	3.088	14.909
5407	8	8.622	10.656	5479	10	11.596	18.720		5607	29	25.952	6.371	5679	14	6.545	14.526
5408	13	12.069	10.273	5480	37	12.994	18.952		5608	37	0.315	7.658	5680	18	6.964	14.840
5409	29	16.772	10.458	5481*	51	2.158	19.360		5609	33	4.559	7.218	5681	16	9.430	14.016
5410	47	17.032	10.900	5482	8	2.641	19.281		5610	10	6.196	7.702	5682	12	16.510	14.491
5411	10	18.537	10.562	5483	28	3.102	19.375		5611	21	13.002	7.910	5683	12	17.058	14.850
5412	29	22.042	10.450	5484	31	7.222	19.473		5612	17	19.598	7.980	5684	13	21.066	14.172
5413	8	0.346	11.477	5485*	49	11.335	19.503		5613	9	19.686	7.268	5685	15	24.090	14.020
5414	20	1.140	11.292	5486	8	15.101	19.120		5614	15	25.069	7.730	5686	49	25.470	14.976
5415	20	5.338	11.350	5487*	45	15.375	19.820		5615	25	11.275	8.404	5687	24	0.591	15.112
5416	8	5.638	11.676	5488	8	16.407	19.822	No. d x y 5551 24 1.445 0.374 5552 15 2.100 0.408 5553 27 3.216 0.188 5554 9 4.702 0.870 5555 31 5.400 0.218 5556 16 8.446 0.874 5557 48 16.384 0.072 5558 10 0.431 1.160 5559 10 5.980 1.352 5560 19 8.200 1.070 5561 17 11.752 1.971 5562 17 12.095 1.145 5563 22 12.684 1.625 5564 20 17.172 1.823 5565 11 21.092 1.236 5566* 46 2.715 2.434 5567 14 8.197 2.413 5568 13 19.282 2.189 5569 21 19.448 2.305 5570 10 20.970 2.744 5571 14 21.425 2.244 5572 10 22.180 2.659 5573 19 23.874 2.364 5574 23 1.250 3.244 5575* 68 7.937 3.116 5576 17 9.671 3.537 5577 21 12.894 3.634 5578 24 13.210 3.075 5579 54 15.606 3.320 5580* 60 19.271 3.289 5581 10 20.965 3.813 5582 10 0.760 4.708 5583 9 2.540 4.185 5584 16 4.536 4.110 5585 26 6.913 4.648 5586 22 10.965 4.340 5587 48 11.408 4.270 5588 10 21.400 4.553 5589 14 21.690 4.120 5590 11 23.014 4.583 5591 10 25.054 4.050 5592 8 0.754 5.698 5593 26 2.470 5.745 5594 8 8.250 5.634 5595 10 9.125 5.812 5596 10 19.145 5.608 5597 14 20.283 5.685 5598 27 24.814 5.314 5599 16 25.804 5.220 5600 60 25.888 5.526 5601 19 0.089 6.808 5602 9 7.596 6.279 5603 10 10.496 6.790 5604 27 13.774 6.672 5605 10 13.992 6.609	5616*	52	11.286	8.404	5688	17	1.130	15.048
5417	35	10.058	11.328	5489	29	16.538	19.764		5617	11	12.850	8.964	5689	9	1.452	15.667
5418	8	13.252	11.709	5490	12	16.890	19.012		5618	14	15.920	8.071	5690	34	15.950	15.974
5419	10	15.838	11.992	5491	20	19.082	19.124		5619*	51	18.610	8.280	5691	35	16.735	15.585
5420	8	18.378	11.338	5492	11	25.360	19.929		5620	9	22.069	8.532	5692	14	17.712	15.121
5421	12	19.522	11.431	5493*	61	10.870	20.998		5621	11	22.251	8.023	5693	18	23.400	15.830
5422*	48	22.256	11.530	5494	13	14.846	20.506		5622	12	24.994	8.580	5694	38	25.330	15.730
5423	15	24.097	11.858	5495	8	22.076	20.142		5623	12	4.442	9.596	5695	9	0.034	16.453
5424	15	24.234	11.712	5496*	58	2.860	21.978		5624	9	9.280	9.234	5696	51	0.702	16.836
5425*	84	24.482	11.052	5497	16	7.847	21.506		5625	38	10.718	9.312	5697	17	6.961	16.358
5426	11	1.078	12.702	5498	20	10.408	21.642		5626	21	10.990	9.604	5698	14	7.785	16.336
5427	22	2.512	12.003	5499	8	12.679	21.641		5627	48	13.060	9.345	5699	33	9.700	16.130
5428*	65	3.377	12.511	5500*	54	15.288	21.288		5628	42	18.992	9.242	5700	8	11.444	16.160
5429*	47	4.206	12.362	5501	20	19.182	21.923		5629	19	25.650	9.415	5701	25	12.610	16.545
5430*	54	15.760	12.555	5502	8	20.727	21.989		5630	13	5.252	10.342	5702	9	14.486	16.862
5431*	35	17.156	12.426	5503	9	0.605	22.894		5631	10	8.985	10.514	5703	14	14.580	16.210
5432*	37	17.719	12.300	5504	13	2.804	22.932		5632*	96	9.262	10.127	5704	8	14.736	16.190
5433	25	1.094	13.962	5505	15	3.038	22.657		5633	26	10.832	10.266	5705	10	19.135	16.845
5434	24	1.532	13.304	5506	8	19.897	22.493		5634	40	11.728	10.476	5706	11	0.013	17.562
5435	23	3.818	13.102	5507	36	23.507	22.426		5635	15	11.798	10.904	5707	27	3.941	17.398
5436	9	6.232	13.501	5508	11	2.358	23.333		5636	9	14.402	10.096	5708	24	5.086	17.400
5437	14	6.708	13.653	5509	11	3.296	23.643		5637	17	20.142	10.980	5709	11	6.633	17.914
5438	9	17.029	13.576	5510*	60	3.314	23.168		5638	12	22.632	10.573	5710	8	9.322	17.570
5439	8	24.932	13.752	5511	28	4.210	23.996		5639	43	23.348	10.285	5711	41	10.688	17.802
5440	8	25.036	13.086	5512	17	7.888	23.026		5640	32	24.658	10.270	5712	30	13.646	17.076
5441	19	2.837	14.057	5513*	56	17.966	23.888		5641*	48	24.698	10.449	5713	20	18.280	17.336
5442	12	3.378	14.896	5514*	112	18.838	23.218		5642	14	25.978	10.912	5714	8	18.625	17.580
5443	10	12.174	14.999	5515	19	21.636	23.908		5643	26	1.749	11.993	5715	10	22.816	17.882
5444	10	17.918	14.353	5516	10	21.878	23.956		5644	23	1.881	11.844	5716	17	11.970	18.530
5445	19	18.456	14.757	5517	13	1.052	24.138		5645*	87	2.120	11.182	5717	30	13.045	18.671
5446	25	22.058	14.948	5518	11	7.163	24.084		5646	20	6.416	11.610	5718	12	16.856	18.767
5447	20	22.898	14.961	5519	22	14.669	24.054		5647	18	6.778	11.438	5719	10	16.950	18.199
5448	8	25.740	14.846	5520	9	20.116	24.051		5648	12	6.801	11.099	5720	20	18.964	18.330
5449	36	0.816	15.110	5521	20	22.098	24.447		5649	12	7.548	11.666	5721	10	18.976	18.715
5450	13	1.672	15.138	5522	11	2.130	25.530		5650	28	8.350	11.530	5722	15	20.410	18.222
5451	10	2.372	15.854	5523*	60	4.877	25.072		5651	25	14.094	11.320	5723	19	22.556	18.790
5452*	62	5.967	15.236	5524	18	6.463	25.337		5652	14	15.209	11.818	5724	13	24.461	18.592
5453	21	7.158	15.684	5525	12	7.494	25.372		5653	21	15.688	11.758	5725	11	3.680	19.510
5454	13	7.917	15.800	5526	26	7.766	25.680		5654	12	22.925	11.160	5726	45	8.178	19.952
5455	9	8.134	15.614	5527	20	11.256	25.730		5655	11	0.100	12.608	5727	11	10.500	19.718
5456	22	11.637	15.549	5528	49	13.850	25.618		5656	15	4.002	12.738	5728	20	10.693	19.142
5457	20	13.456	15.080	5529	10	25.217	25.803		5657	19	4.277	12.800	5729	10	13.238	19.391
5458	35	18.417	15.613	5530	10	25.435	25.584		5658	12	4.966	12.218	5730	27	13.570	19.329
5459	20	19.022	15.978						5659	34	7.708	12.848	5731	12	15.534	19.992
5460	9	20.223	15.522						5660	12	12.106	12.211	5732	21	15.807	19.460
5461	13	3.424	16.912						5661	47	12.492	12.540	5733	10	17.701	19.460
5462	8	6.053	16.131						5662	19	13.020	12.560	5734*	67	18.626	19.188
5463*	46	9.442	16.100						5663	13	13.362	12.362	5735	12	19.724	19.350
5464	27	9.654	16.220						5664	13	20.995	12.322	5736	22	20.065	19.100
5465	18	10.254	16.706						5665	10	24.819	12.435	5737	25	20.720	19.486
5466	13	16.818	16.700						5666	30	25.272	12.014	5738	22	21.100	19.802
5467	10	19.240	16.215						5667	36	25.380	12.630	5739	13	23.245	19.672
5468	8	19.423	16.560						5668	14	2.710	13.201	5740*	44	24.373	19.212
5469	8	22.326	16.297						5669	19	8.662	13.200	5741	20	3.120	20.046
5470*	45	22.990	16.688						5670	13	9.458	13.300	5742	22	4.970	20

5750	14	4.880	21.862	5806	8	5.526	1.212	5878	32	1.074	10.236	5950*	53	6.900	21.826	6010	46	0.944	1.979
5751*	73	17.160	21.738	5807	16	7.676	1.581	5879*	42	1.112	10.416	5951*	43	9.608	21.992	6011	28	1.243	1.474
5752	10	17.654	21.588	5808	9	13.865	1.495	5880	12	2.404	10.864	5952*	44	13.162	21.130	6012	16	4.636	1.057
5753	10	18.900	21.173	5809	41	21.921	1.622	5881	34	4.372	10.055	5953	15	17.058	21.519	6013	44	5.724	1.724
5754	10	21.163	21.818	5810	27	22.224	1.122	5882	31	8.078	10.978	5954	17	17.616	21.011	6014	12	12.086	1.606
5755	23	21.590	21.360	5811	18	0.182	2.344	5883	39	12.804	10.194	5955	29	17.782	21.924	6015	18	21.988	1.515
5756	15	23.184	21.960	5812*	61	8.216	2.074	5884	18	20.038	10.936	5956	20	18.834	21.066	6016	9	22.512	1.108
5757	17	25.724	21.416	5813	23	9.916	2.654	5885	37	22.275	10.730	5957	34	20.108	21.895	6017	48	25.826	1.948
5758	42	1.300	22.566	5814	31	10.184	2.026	5886	8	0.050	11.934	5958	9	9.408	22.500	6018	13	5.513	2.547
5759	32	9.385	22.772	5815*	43	12.224	2.212	5887	34	1.710	11.975	5959	13	11.716	22.436	6019	36	10.536	2.960
5760	22	10.620	22.217	5816	11	23.450	2.894	5888	31	5.488	11.041	5960	14	12.326	22.920	6020	20	13.500	2.852
5761	27	11.540	22.720	5817*	40	14.172	3.934	5889	17	9.066	11.708	5961	18	13.100	22.112	6021	17	14.196	2.339
5762*	70	12.394	22.173	5818	18	18.527	3.395	5890	22	12.386	11.832	5962	16	21.026	22.876	6022	9	22.967	2.704
5763	12	12.999	22.770	5819	13	21.588	3.791	5891	32	13.780	11.480	5963*	60	21.876	22.586	6023	22	2.485	3.233
5764	17	19.048	22.610	5820*	53	3.035	4.736	5892	35	15.400	11.414	5964	40	22.298	22.102	6024	8	10.288	3.777
5765	12	21.760	22.765	5821*	41	4.237	4.195	5893	32	21.746	11.418	5965	15	9.937	23.792	6025	22	16.573	3.884
5766	41	7.190	23.210	5822	8	10.378	4.946	5894	39	1.830	12.590	5966	12	18.614	23.504	6026	10	17.384	3.856
5767	13	9.063	23.647	5823	14	10.439	4.320	5895	34	5.852	12.149	5967	8	0.212	24.182	6027	14	0.640	4.150
5768	25	10.490	23.645	5824	24	11.344	4.256	5896	8	7.081	12.724	5968*	48	0.937	24.121	6028	21	2.764	4.712
5769*	52	14.192	23.210	5825	26	11.505	4.416	5897	13	13.559	12.906	5969*	40	3.688	24.899	6029	14	6.938	4.596
5770	25	20.480	23.486	5826	8	14.911	4.736	5898	9	19.255	12.222	5970	8	3.980	24.406	6030	48	7.828	4.694
5771	18	20.490	23.854	5827	8	16.483	4.487	5899	9	0.562	13.996	5971	40	6.383	24.717	6031	8	10.060	4.126
5772	9	21.503	23.229	5828	10	23.712	4.376	5900	23	4.244	13.614	5972	32	8.122	24.255	6032	11	12.661	4.548
5773	11	11.422	24.581	5829	35	1.158	5.280	5901	12	8.480	13.434	5973	28	9.729	24.164	6033	8	14.278	4.201
5774	14	13.103	24.300	5830	25	2.150	5.168	5902	12	10.086	13.868	5974	18	10.176	24.509	6034	9	14.758	4.600
5775	22	13.490	24.534	5831	42	2.232	5.478	5903	13	14.475	13.920	5975	11	12.780	24.591	6035	10	24.483	4.001
5776	15	16.360	24.784	5832	27	3.006	5.974	5904	24	15.570	13.304	5976	13	13.556	24.717	6036	70	0.544	5.790
5777	53	18.077	24.572	5833	24	5.840	5.702	5905	20	16.590	13.320	5977	8	17.426	24.198	6037	16	1.794	5.685
5778*	46	19.074	24.037	5834	8	9.881	5.758	5906	21	19.078	13.530	5978	8	17.942	24.778	6038	8	4.766	5.570
5779*	52	19.944	24.031	5835	22	13.316	5.242	5907	18	24.026	13.716	5979	23	18.692	24.279	6039	8	5.044	5.380
5780*	72	20.285	24.691	5836	12	20.076	5.996	5908*	41	1.952	14.932	5980	37	18.714	24.268	6040	11	6.710	5.788
5781	14	22.200	24.594	5837*	46	21.486	5.428	5909*	42	5.959	14.875	5981	8	24.592	24.329	6041*	62	16.466	5.150
5782*	80	24.328	24.154	5838	15	21.683	5.758	5910	17	21.189	14.488	5982	29	2.824	25.938	6042	17	22.880	5.616
5783	17	3.059	25.922	5839	15	22.730	5.342	5911	40	23.720	14.689	5983	10	5.378	25.834	6043	14	25.194	5.746
5784	17	3.270	25.700	5840	33	2.316	6.320	5912	47	24.434	14.691	5984	11	11.679	25.552	6044	11	0.751	6.115
5785	15	3.553	25.578	5841*	54	7.244	6.642	5913	38	1.822	15.689	5985	36	13.184	25.809	6045	12	5.599	6.331
5786	14	4.054	25.190	5842*	40	8.722	6.671	5914*	41	2.704	15.268	5986	8	14.316	25.126	6046	37	5.659	6.728
5787	16	7.565	25.899	5843	36	8.859	6.935	5915	16	12.555	15.925	5987	22	19.164	25.669	6047	8	13.984	6.872
5788	15	8.197	25.700	5844	11	12.734	6.712	5916	10	15.182	15.277					6048*	80	17.122	6.240
5789	13	10.674	25.999	5845	33	13.520	6.758	5917	10	23.480	15.267					6049	45	17.331	6.363
5790	28	11.930	25.030	5846	10	17.882	6.806	5918	37	23.739	15.874					6050*	52	17.937	6.652
5791	11	20.307	25.190	5847	30	19.027	6.433	5919	11	9.798	16.596					6051	40	1.765	7.786
5792	10	25.408	25.236	5848	17	1.452	7.690	5920	38	18.938	16.002					6052	12	3.130	7.759
				5849	33	2.698	7.034	5921	18	23.145	16.740					6053	9	7.569	7.870
				5850	30	7.753	7.355	5922	11	23.937	16.563					6054	9	8.336	7.835
				5851	11	14.131	7.310	5923	8	2.024	17.594					6055	9	11.215	7.242
				5852	22	14.479	7.298	5924	8	3.713	17.941					6056	10	11.315	7.144
				5853	17	14.500	7.141	5925*	42	7.678	17.672					6057	10	11.781	7.838
				5854	27	15.292	7.472	5926	30	14.287	17.924					6058	8	12.682	7.200
				5855*	40	20.776	7.000	5927	15	16.838	17.866					6059	9	23.320	7.398
				5856	39	22.680	7.438	5928	33	25.054	17.716					6060	56	0.750	8.500
				5857	8	24.045	7.430	5929	8	1.184	18.558					6061	34	0.809	8.472
				5858	9	0.382	8.560	5930	24	7.292	18.510					6062	11	6.512	8.498
				5859	28	3.238	8.722	5931	14	8.304	18.476					6063	9	8.373	8.971
				5860	37	6.202	8.770	5932	31	19.282	18.558					6064*	80	10.309	8.911
				5861	20	7.513	8.104	5933	14	19.324	18.124					6065*	50	14.750	8.873
				5862	20	7.577	8.429	5934	34	21.724	18.368					6066	8	14.965	8.850
				5863	10	7.740	8.280	5935	13	24.400	18.702					6067	12	15.590	8.955
				5864	9	13.334	8.913	5936	31	24.924	18.147					6068	37	17.436	8.249
				5865	8	16.590	8.325	5937	31	25.005	18.621					6069	9	17.743	8.906
				5866	14	17.010	8.355	5938*	40	0.916	19.184					6070	27	22.269	8.333
				5867	16	18.108	8.538	5939	8	3.164	19.648					6071	8	5.180	9.529
				5868*	41	21.660	8.137	5940	11	0.551	20.384					6072	16	6.628	9.970
				5869	34	21.718	8.114	5941*	59	0.914	20.914					6073	9	7.098	9.169
				5870	24	2.055	9.368	5942	8	4.056	20.909					6074	10	7.176	9.584
				5871	34	2.472	9.984	5943	9	4.986	20.045					6075	14	11.990	9.952
				5872	9	2.786	9.318	5944	23	6.073	20.941					6076	8	15.918	9.888
				5873	28	2.843	9.160	5945	17	12.148	20.302					6077	20	21.406	9.640
				5874	36	4.626	9.660	5946	15	13.724	20.340					6078*	140	1.046	10.280
				5875	36	9.288	9.456	5947	10	20.514	20.770					6079	10	2.215	10.614
				5876*	122	21.950	9.922	5948	14	2.304	21.366					6080			

6082	8	12.302	10.538	6154*	56	24.222	19.556	<div>R.A. 3^h 44^m</div> <div>Plate 827 ; 1916 Nov. 20.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>−02585 + 00033 + 1784</div> <div>D E F</div> <div>−00039 − 02585 − 2192</div> <div>Mag. = 16.2 − 1.05√d</div>	6306	26	25.636	4.504	6378	12	17.518	13.262
6083	8	16.293	10.358	6155	8	2.920	20.524		6307	17	0.502	5.642	6379	19	18.244	13.311
6084	8	16.380	10.126	6156	9	4.772	20.582		6308	14	2.815	5.762	6380*	41	22.034	13.756
6085	37	19.499	10.099	6157	22	9.562	20.786		6309	24	5.848	5.982	6381	14	24.848	13.486
6086	38	19.950	10.940	6158	33	10.306	20.327		6310	20	8.070	5.468	6382	9	1.746	14.112
6087	37	0.874	11.773	6159	8	12.544	20.283		6311	18	9.783	5.087	6383	28	6.673	14.741
6088	42	1.394	11.080	6160*	48	14.130	20.918		6312	9	10.376	5.818	6384	20	13.886	14.209
6089	13	3.726	11.692	6161	8	14.524	20.464		6313	14	14.127	5.480	6385	8	15.689	14.162
6090	10	7.449	11.913	6162	8	17.774	20.299		6314	17	14.442	5.356	6386	8	16.678	14.952
6091	18	25.090	11.724	6163	15	18.262	20.211		6315	111	18.164	5.090	6387	8	20.958	14.068
6092	11	5.294	12.466	6164	8	18.906	20.228	6316*	40	21.788	5.874	6388	11	22.872	14.716	
6093*	53	5.779	12.454	6165	8	19.270	20.825	6317	10	23.032	5.524	6389	10	23.994	14.874	
6094	8	9.845	12.948	6166*	53	21.008	20.148	6318	23	23.116	5.270	6390	27	2.682	15.952	
6095	28	10.235	12.662	6167	28	23.535	20.136	6319*	25	24.906	5.278	6391	12	5.012	15.005	
6096	8	11.496	12.960	6168	11	5.668	21.735	6320*	62	4.742	6.108	6392	29	6.398	15.020	
6097	11	14.564	12.889	6169	25	6.128	21.084	6321	20	9.252	6.342	6393	29	9.638	15.080	
6098	42	16.761	12.936	6170	26	9.836	21.258	6322	29	9.820	6.255	6394*	53	14.762	15.690	
6099	42	21.381	12.984	6171	10	11.625	21.729	6323	9	15.620	6.817	6395*	48	15.280	15.354	
6100	8	0.822	13.122	6172	23	12.235	21.499	6324	15	21.170	6.868	6396	10	18.834	15.141	
6101	8	12.446	13.822	6173	31	15.350	21.447	6325*	60	21.250	6.216	6397	27	23.844	15.870	
6102	35	14.086	13.510	6174	10	15.621	21.967	6326	11	22.720	6.421	6398	9	25.382	15.600	
6103	41	17.116	13.242	6175	47	15.882	21.260	6327	9	23.660	6.144	6399*	40	3.212	16.920	
6104	10	24.652	13.844	6176	8	18.423	21.824	6328	8	0.946	7.420	6400	14	3.532	16.204	
6105	8	0.032	14.472	6177*	84	1.118	22.942	6329	11	5.716	7.822	6401	18	8.272	16.081	
6106	22	0.351	14.850	6178	43	1.538	22.450	6330	25	7.490	7.132	6402	11	9.682	16.338	
6107	20	3.178	14.044	6179	9	4.382	22.994	6331	8	12.293	7.050	6403	22	10.164	16.238	
6108	8	10.028	14.196	6180	19	12.336	22.086	6332	13	13.884	7.080	6404	12	11.602	16.477	
6109	11	10.854	14.428	6181	8	14.203	22.402	6333	8	15.298	7.705	6405	8	15.086	16.746	
6110	11	12.399	14.864	6182	9	14.315	22.050	6334	18	15.935	7.019	6406*	30	15.298	16.584	
6111	8	18.281	14.922	6183	15	16.446	22.341	6335	8	10.692	8.256	6407	10	15.660	16.939	
6112	8	18.346	14.415	6184	34	16.691	22.248	6336	33	13.270	8.422	6408	9	17.803	16.520	
6113	8	24.098	14.092	6185*	49	17.462	22.120	6337	8	16.900	8.730	6409	10	21.048	16.320	
6114	9	2.650	15.598	6186	9	24.831	22.050	6338	14	24.280	8.864	6410	18	21.176	16.360	
6115*	44	2.884	15.025	6187	21	0.279	23.240	6339	12	7.272	9.392	6411	12	24.197	16.893	
6116*	64	3.594	15.022	6188	9	1.295	23.803	6340	20	9.144	9.156	6412	8	7.332	17.682	
6117	9	3.784	15.804	6189	23	6.566	23.645	6341	21	12.833	9.221	6413	12	8.628	17.444	
6118	36	7.575	15.656	6190	40	19.235	23.920	6342*	41	15.366	9.690	6414	8	14.294	17.114	
6119	20	8.514	15.480	6191	8	22.894	23.744	6343	18	16.422	9.378	6415	20	16.198	17.006	
6120	26	14.445	15.448	6192	12	3.858	24.648	6344	11	19.320	9.972	6416	12	16.936	17.636	
6121*	49	14.750	15.009	6193	10	6.592	24.482	6345	8	21.830	9.612	6417	12	17.276	17.475	
6122	17	17.445	15.640	6194	15	7.482	24.998	6346	12	23.598	9.120	6418	26	19.930	17.638	
6123	35	25.026	15.936	6195	9	7.806	24.540	6347	10	24.512	9.789	6419	25	20.860	17.342	
6124	44	2.916	16.210	6196	11	9.103	24.584	6348*	35	7.704	10.432	6420	11	24.222	17.700	
6125	11	3.120	16.894	6197	8	12.478	24.214	6349	26	8.847	10.752	6421	20	13.218	18.491	
6126	11	8.685	16.535	6198	12	14.849	24.973	6350*	50	10.002	10.495	6422	14	22.364	18.286	
6127	23	9.618	16.250	6199	45	16.395	24.442	6351	11	15.702	10.978	6423	45	24.944	18.218	
6128	32	17.318	16.200	6200	9	17.700	24.438	6352	14	21.279	10.160	6424*	41	1.888	19.575	
6129	48	21.834	16.225	6201	44	18.856	24.390	6353*	44	23.272	10.477	6425	8	8.334	19.348	
6130	11	22.216	16.987	6202*	95	19.256	24.549	6354	15	2.732	11.737	6426	33	12.117	19.752	
6131	51	25.555	16.906	6203	30	19.809	24.304	6355	17	4.258	11.914	6427	12	14.290	19.378	
6132	20	25.870	16.191	6204	8	20.590	24.374	6356	31	12.184	11.766	6428*	52	15.646	19.468	
6133	13	2.329	17.078	6205	13	25.674	24.000	6357	10	12.512	11.243	6429	8	17.441	19.276	
6134	31	5.438	17.570	6206*	65	7.456	25.130	6358	11	14.986	11.310	6430	8	20.382	19.261	
6135	8	8.635	17.016	6207	11	8.547	25.282	6359	12	17.600	11.945	6431	12	20.452	19.392	
6136	10	13.315	17.052	6208	35	11.438	25.264	6360	22	21.056	11.222	6432	13	21.577	19.478	
6137	29	14.146	17.310	6209	12	14.872	25.599	6361	30	21.417	11.609	6433	26	22.982	19.518	
6138	9	16.388	17.014	6210	64	19.080	25.756	6362	12	22.593	11.284	6434	8	22.976	19.052	
6139	8	18.087	17.399	6211	13	21.590	25.027	6363	8	7.603	12.628	6435	33	24.376	19.506	
6140	14	20.117	17.274					6364	12	8.448	12.356	6436	8	25.199	19.550	
6141	10	21.718	17.465					6365	15	9.826	12.600	6437	17	1.208	20.158	
6142	38	0.924	18.724					6366	9	10.980	12.428	6438	8	6.146	20.380	
6143	37	4.125	18.472					6367	8	12.982	12.446	6439	12			

6450	58	25-216	21-346	6519	11	21-325	1-892	6591	19	2-050	8-820	6663	26	21-990	12-290	6735	10	10-566	18-193
6451	25	25-786	21-094	6520*	78	22-086	1-556	6592	17	7-561	8-364	6664	17	22-500	12-683	6736	8	11-902	18-798
6452	83	25-948	21-052	6521	10	6-294	2-467	6593	8	7-710	8-510	6665	17	2-678	13-435	6737	10	12-110	18-370
6453	9	2-514	22-070	6522	13	7-252	2-957	6594*	63	7-990	8-328	6666	17	5-276	13-607	6738	19	13-321	18-551
6454	8	4-370	22-895	6523	14	9-614	2-392	6595	11	8-870	8-304	6667	24	8-317	13-490	6739	10	15-820	18-540
6455	13	8-628	22-292	6524*	58	9-854	2-402	6596	8	9-450	8-988	6668	11	9-960	13-046	6740	11	21-925	18-316
6456	9	12-646	22-612	6525	10	10-810	2-984	6597	15	10-710	8-320	6669	10	12-202	13-076	6741	13	22-053	18-378
6457	38	18-924	22-410	6526	14	14-388	2-004	6598	13	11-314	8-394	6670	9	14-452	13-794	6742	35	25-874	18-639
6458*	44	22-922	22-714	6527	17	15-477	2-049	6599	13	12-710	8-215	6671	19	16-340	13-090	6743	29	0-886	19-490
6459	40	23-300	22-290	6528	43	16-131	2-376	6600	8	13-040	8-249	6672	20	16-682	13-650	6744	39	2-282	19-460
6460	27	21-766	23-088	6529	23	19-814	2-548	6601	11	13-330	8-558	6673	38	18-032	13-484	6745	13	3-110	19-496
6461	8	25-080	23-839	6530	11	19-896	2-578	6602*	50	17-670	8-428	6674	17	20-036	13-440	6746	39	9-592	19-860
6462	8	25-464	23-901	6531	52	21-355	2-055	6603	9	18-862	8-736	6675	14	20-320	13-728	6747	27	11-202	19-756
6463	19	3-368	24-016	6532	10	0-335	3-509	6604	10	19-006	8-017	6676	13	0-720	14-688	6748	11	12-490	19-400
6464	13	7-012	24-644	6533	10	0-350	3-517	6605	13	19-100	8-754	6677	20	5-035	14-470	6749	40	16-928	19-041
6465	21	8-128	24-207	6534	37	0-840	3-984	6606	44	21-680	8-507	6678	16	5-650	14-856	6750	15	17-462	19-215
6466	8	11-229	24-875	6535	10	1-598	3-269	6607	14	24-749	8-686	6679	19	7-550	14-288	6751*	36	20-510	19-844
6467	8	12-215	24-831	6536*	46	1-646	3-260	6608	74	25-485	8-243	6680	13	8-331	14-880	6752*	49	20-645	19-958
6468	8	14-603	24-875	6537	42	5-531	3-630	6609	12	1-372	9-083	6681	21	9-324	14-847	6753	19	23-698	19-500
6469*	78	17-692	24-734	6538	23	9-400	3-817	6610	12	2-297	9-740	6682*	49	18-544	14-992	6754	25	25-040	19-326
6470	10	18-286	24-684	6539	10	9-402	3-845	6611	10	3-217	9-790	6683	10	19-874	14-476	6755*	100	3-866	20-984
6471	30	19-427	24-646	6540	12	10-276	3-512	6612	10	5-740	9-229	6684	23	20-337	14-350	6756	31	15-447	20-824
6472	20	24-043	24-722	6541	23	14-499	3-510	6613*	60	8-061	9-623	6685*	69	22-030	14-673	6757	24	18-590	20-759
6473	14	24-294	24-090	6542	16	16-424	3-250	6614	8	8-800	9-465	6686	11	24-194	14-470	6758	10	19-811	20-324
6474	13	6-209	25-480	6543	11	25-297	3-031	6615	9	10-610	9-793	6687	13	24-562	14-117	6759	8	23-150	20-332
6475	34	9-266	25-510	6544	10	0-160	4-108	6616	27	12-189	9-125	6688	30	1-700	15-830	6760	24	25-660	20-618
6476	10	9-880	25-261	6545	15	0-630	4-380	6617	12	14-262	9-664	6689	10	3-240	15-540	6761	24	2-796	21-036
6477	17	20-291	25-728	6546	10	1-258	4-442	6618	14	15-560	9-483	6690	25	8-076	15-430	6762*	73	3-140	21-289
6478	12	21-006	25-690	6547	29	3-352	4-442	6619	10	15-770	9-248	6691	11	8-484	15-141	6763	35	3-713	21-028
				6548	14	5-954	4-050	6620	8	17-096	9-870	6692	44	9-618	15-344	6764	34	5-030	21-494
				6549	19	7-352	4-424	6621	10	17-628	9-914	6693	11	9-850	15-740	6765	15	6-900	21-920
				6550	21	8-095	4-775	6622	11	19-008	9-744	6694	29	12-040	15-396	6766	30	9-590	21-449
				6551*	85	8-113	4-250	6623	9	19-475	9-435	6695	12	15-174	15-450	6767	29	15-907	21-326
				6552	21	11-753	4-288	6624	15	24-150	9-380	6696	27	17-064	15-288	6768	10	17-854	21-976
				6553	19	13-538	4-778	6625	26	25-069	9-414	6697	23	17-991	15-681	6769	14	18-702	21-780
				6554	19	13-838	4-380	6626*	54	1-058	10-444	6698	10	19-788	15-865	6770	8	18-930	21-135
				6555	13	14-030	4-976	6627	10	9-800	10-381	6699	25	22-726	15-060	6771	12	21-681	21-455
				6556	12	14-827	4-188	6628	22	10-000	10-900	6700	17	24-052	15-598	6772	49	24-994	21-172
				6557	33	16-527	4-786	6629	11	10-345	10-076	6701	15	2-072	16-849	6773	54	0-864	22-685
				6558	9	19-448	4-288	6630	11	10-856	10-424	6702	9	3-924	16-596	6774	52	1-242	22-256
				6559*	71	24-252	4-020	6631	30	13-010	10-874	6703*	61	7-322	16-682	6775	29	4-795	22-658
				6560	12	0-761	5-497	6632*	50	15-367	10-290	6704	12	8-304	16-233	6776	23	7-528	22-142
				6561	28	0-839	5-240	6633	9	16-616	10-900	6705	30	10-382	16-423	6777	12	11-654	22-924
				6562*	40	2-632	5-226	6634	27	21-382	10-053	6706	21	10-457	16-235	6778	12	12-500	22-730
				6563	17	11-940	5-184	6635	50	21-725	10-792	6707	9	13-474	16-714	6779	26	12-521	22-256
				6564	9	13-960	5-106	6636	12	22-402	10-931	6708	22	17-258	16-784	6780	10	13-224	22-599
				6565	13	14-650	5-359	6637	10	22-622	10-754	6709	8	17-735	16-312	6781	14	13-400	22-030
				6566	14	16-490	5-540	6638	21	0-394	11-260	6710	13	21-012	16-408	6782*	66	14-492	22-240
				6567	10	19-552	5-165	6639	23	4-462	11-135	6711	11	22-394	16-746	6783	30	16-960	22-058
				6568	37	21-504	5-284	6640	14	4-986	11-618	6712	10	23-010	16-916	6784	15	21-260	22-907
				6569	13	22-694	5-932	6641	12	5-340	11-280	6713	15	23-546	16-000	6785	10	25-234	22-600
				6570	9	24-459	5-275	6642	25	8-870	11-674	6714	36	4-017	17-254	6786	14	3-048	23-784
				6571*	70	24-850	5-230	6643	8	11-577	11-200	6715	18	11-966	17-680	6787	18	4-357	23-866
				6572	20	25-298	5-128	6644	12	11-630	11-829	6716	11	13-678	17-157	6788	37	7-053	23-648
				6573	10	0-460	6-398	6645	23	14-430	11-028	6717	22	14-100	17-581	6789	14	7-073	23-481
				6574	14	1-400	6-109	6646	14	16-500	11-888	6718	9	16-288	17-604	6790	10	7-270	23-772
				6575	19	11-528	6-425	6647	10	17-861	11-932	6719*	46	16-536	17-990	6791	33	8-812	23-686
				6576	21	11-570	6-474	6648*	36	18-200	11-779	6720*	46	17-340	17-746	6792	26	9-229	23-782
				6577	15	14-051	6-612	6649	9	18-801	11-700	6721	23	18-211	17-724	6793	49	9-248	23-787
				6578	21	15-070	6-846	6650	9	22-324	11-452	6722	12	18-577	17-560	6794	13	9-572	23-570
				6579	24	17-075	6-416	6651	26	24-338	11-584	6723	21	20-084	17-653	6795	23	12-696	23-812
				6580	8	18-162	6-122	6652	30	25-138	11-390	6724	13	21-124	17-588	6796	48	13-764	23-893
				6581*	45	19-715	6-701	6653	29	1-348	12-860	6725	14	21-472	17-204	6797	10	18-384	23-244
				6582	16	4-256	7-616	6654	12	4-252	12-366	6726	16	23-880	17-789	6798	14	21-570	23-065
				6583	14	6-055	7-849	6655	8	7-790	12-139	6727*	35	24-112	17-170	6799	14	25-412	23-260
				6584	10	10-460	7-600	6656*	95	10-740	12-282	6728	36	24-819	17-504	6800	29	2-020	24-680
				6585	23	12-580	7-758	6657	20	12-820	12-435	6729	16	0-254	18-265	6801	23	2-264	24-043
				6586	9	13-200	7-976	6658*	44	13-940	12-690	6730*	55	2-828	18-164	6802	25	7-880	24-954
				6587	20	16-633	7-240	6659	10	14-23									

6807	53	5.365	25.275	6891	12	10.884	4.012	6963	30	7.460	11.044	7035	24	7.951	17.474	7107	38	16.386	23.136
6808	12	8.786	25.780	6892	8	11.068	4.544	6964	9	8.146	11.895	7036	12	10.342	17.034	7108	9	16.594	23.464
6809	25	10.420	25.079	6893	9	20.941	4.796	6965	23	8.170	11.808	7037*	46	11.411	17.520	7109	10	16.695	23.306
6810	9	12.582	25.878	6894*	40	21.642	4.386	6966	23	10.158	11.437	7038	46	12.176	17.734	7110	27	17.165	23.395
6811	19	17.235	25.259	6895	35	23.708	4.014	6967	14	10.622	11.228	7039	15	15.112	17.546	7111	32	19.380	23.228
6812	9	19.974	25.135	6896	9	23.940	4.390	6968	10	12.314	11.610	7040	8	17.750	17.304	7112	11	20.370	23.374
6813	22	20.910	25.384	6897	34	24.068	4.930	6969	9	18.471	11.543	7041*	40	20.440	17.070	7113	36	23.746	23.046
6814	15	23.370	25.626	6898	10	24.233	4.013	6970	48	23.277	11.558	7042	25	21.026	17.614	7114	22	24.522	23.332
				6899	11	2.182	5.615	6971	10	24.587	11.224	7043	19	24.700	17.898	7115	10	9.166	24.448
				6900*	58	2.564	5.570	6972	17	25.200	11.050	7044	21	1.745	18.136	7116	9	13.074	24.922
				6901	27	3.020	5.456	6973	72	25.578	11.206	7045	8	2.390	18.818	7117	35	13.654	24.014
				6902	12	3.960	5.468	6974	44	7.364	12.366	7046	37	3.750	18.962	7118	9	14.207	24.538
				6903	11	5.562	5.516	6975	17	7.415	12.562	7047	11	12.914	18.954	7119	38	15.430	24.526
				6904	27	7.349	5.070	6976	29	7.890	12.794	7048	37	16.686	18.537	7120	16	15.957	24.023
				6905	26	8.280	5.463	6977	11	8.149	12.086	7049	25	17.274	18.934	7121	34	17.850	24.592
				6906	31	12.600	5.960	6978	17	9.444	12.240	7050	35	17.456	18.012	7122	32	20.084	24.810
				6907	8	20.166	5.115	6979	25	12.630	12.941	7051	18	17.524	18.000	7123	14	21.226	24.883
				6908	25	24.708	5.477	6980*	45	24.716	12.724	7052	32	18.660	18.160	7124	9	23.836	24.790
				6909	11	0.424	6.296	6981	16	0.307	13.046	7053	8	19.560	18.354	7125	11	1.330	25.980
				6910	29	6.114	6.968	6982	30	10.040	13.049	7054	12	20.240	18.384	7126	38	8.418	25.569
				6911	42	10.234	6.781	6983	8	11.412	13.786	7055	13	20.526	18.876	7127	27	12.915	25.198
				6912	14	13.106	6.804	6984*	49	17.500	13.830	7056	30	23.038	18.929	7128	36	14.500	25.700
				6913	10	14.632	6.820	6985*	33	17.640	13.850	7057	8	25.326	18.710	7129	17	15.900	25.267
				6914	11	14.696	6.558	6986	22	20.250	13.740	7058	20	1.585	19.851	7130	8	16.712	25.686
				6915*	38	15.229	6.627	6987	37	21.850	13.343	7059	29	2.928	19.659	7131	33	17.912	25.891
				6916	26	16.845	6.574	6988	22	22.042	13.473	7060	34	6.926	19.668				
				6917*	66	23.624	6.998	6989	36	22.528	13.946	7061	34	9.250	19.580				
				6918	30	6.426	7.366	6990	10	22.693	13.592	7062	8	9.740	19.640				
				6919	9	7.358	7.510	6991	41	24.446	13.872	7063*	46	10.956	19.326				
				6920	33	10.418	7.478	6992	10	2.024	14.814	7064	42	12.922	19.362				
				6921	11	13.552	7.164	6993	10	2.390	14.458	7065	12	14.390	19.542				
				6922	30	15.856	7.911	6994	28	7.264	14.450	7066	8	15.908	19.918				
				6923	23	17.426	7.700	6995	26	7.432	14.792	7067	26	15.907	19.838				
				6924	41	20.960	7.586	6996	19	10.670	14.070	7068	16	16.611	19.997				
				6925	9	0.368	8.318	6997	36	16.356	14.393	7069	10	19.570	19.566				
				6926	10	2.856	8.292	6998	31	23.891	14.810	7070	37	19.676	19.912				
				6927*	60	3.236	8.572	6999	30	24.302	14.465	7071	13	20.792	19.008				
				6928	34	5.760	8.806	7000	9	24.852	14.242	7072	8	21.610	19.329				
				6929	17	7.000	8.865	7001	30	0.560	15.421	7073	18	22.004	19.290				
				6930	19	9.156	8.150	7002	13	1.896	15.943	7074	29	3.560	20.946				
				6931	9	9.448	8.348	7003	26	5.556	15.197	7075*	77	5.676	20.266				
				6932	16	10.606	8.168	7004	20	8.330	15.094	7076	34	9.092	20.842				
				6933	8	14.338	8.890	7005	12	11.710	15.416	7077	9	12.096	20.740				
				6934	34	21.470	8.652	7006*	47	14.072	15.297	7078	9	12.348	20.666				
				6935	10	22.402	8.435	7007	11	15.600	15.740	7079	9	20.169	20.990				
				6936	15	1.922	9.728	7008	8	16.570	15.520	7080	42	2.900	21.504				
				6937	10	2.516	9.024	7009	22	16.811	15.910	7081	24	4.586	21.525				
				6938	32	2.838	9.747	7010	35	17.775	15.178	7082	35	7.065	21.788				
				6939	24	6.670	9.286	7011	14	19.733	15.472	7083	24	11.252	21.162				
				6940	9	7.084	9.273	7012*	53	19.816	15.370	7084	22	13.454	21.846				
				6941	24	15.956	9.299	7013	71	25.068	15.106	7085	22	14.680	21.378				
				6942	9	17.446	9.966	7014	21	1.398	16.353	7086	10	16.239	21.554				
				6943	26	17.917	9.695	7015*	38	4.522	16.081	7087	26	17.688	21.165				
				6944	10	21.063	9.119	7016*	43	4.686	16.192	7088	18	19.067	21.580				
				6945	30	21.320	9.456	7017	8	5.592	16.446	7089	8	20.792	21.961				
				6946	26	8.295	10.964	7018	35	5.986	16.956	7090	8	22.305	21.095				
				6947	8	8.668	10.463	7019	8	13.606	16.490	7091	31	22.654	21.039				
				6948	8	9.152	10.464	7020	8	18.219	16.906	7092*	51	24.573	21.405				
				6949	11	10.122	10.056	7021*	76	18.910	16.384	7093	8	4.751	22.815				
				6950	9	18.274	10.146	7022	9	20.787	16.126	7094*	46	5.060	22.050				
				6951	21	20.728	10.292	7023	38	21.506	16.512	7095	8	6.651	22.126				
				6952	18	23.134	10.064	7024	24	21.668	16.761	7096	19	8.400	22.778				
				6953	33	24.286	10.141	7025	8	0.250	17.113	7097	10	10.006	22.191				
				6954	8	24.865	10.717	7026	9	0.868	17.274	7098	8	14.262	22.053				
				6955	8	25.254	10.514	7027*	38	1.972	17.514	7099	20	16.406	22.890				
				6956	9	0.114	11.816	7028	37	2.684	17.840	7100	36	16.466	22.750				
				6957	10	0.190	11.299	7029	20	4.558	17.935	7101	35	20.364	22.666				
				6958	.8	0.408	11.117	7030*	54	5.466	17.526	7102	8	23.174	22.061				
				6959	27	2.134	11.928	7031	8	5.800	17.030	7103	23	3.345	23.590				
				6960	35	2.930	11.724	7032	11	5.933	17.434	7104	8	5.203	23.000				
				6961	22	4.758	11.566	7033	23	6.019	17.119	7105	17	8.001	23.160				
				6962	22	6.893	11.918	7034	24	7.310	17.313	7106	35	15.984	23.246				

7174	19	2.616	2.083	7246	38	17.392	8.014	7318	35	1.946	14.390	7390	19	23.268	20.694	7455	14	14.012	0.185
7175	20	2.730	2.793	7247	24	18.300	8.149	7319	20	6.426	14.363	7391*	52	2.278	21.328	7456	8	14.782	0.105
7176	19	4.630	2.604	7248	27	19.352	8.473	7320	22	8.938	14.686	7392*	54	9.949	21.645	7457	11	14.829	0.472
7177*	58	4.815	2.598	7249	34	21.729	8.776	7321	22	11.101	14.337	7393	37	17.950	21.697	7458	11	16.465	0.549
7178*	44	9.476	2.117	7250	11	23.328	8.958	7322	15	11.161	14.212	7394	38	19.940	21.130	7459	8	18.914	0.679
7179	34	10.550	2.320	7251	68	25.852	8.966	7323	17	11.278	14.844	7395	26	20.556	21.324	7460	8	21.131	0.312
7180	38	13.590	2.557	7252	14	0.736	9.001	7324*	57	11.500	14.007	7396	38	1.468	22.978	7461	54	22.484	0.350
7181	30	15.658	2.394	7253*	60	4.410	9.512	7325	36	12.855	14.818	7397	13	4.302	22.286	7462	10	25.869	0.635
7182	38	18.071	2.675	7254*	69	4.681	9.814	7326	19	13.808	14.666	7398	19	7.694	22.484	7463	10	0.791	1.810
7183	25	18.086	2.557	7255	17	8.262	9.476	7327	38	19.611	14.500	7399	37	10.427	22.857	7464	10	1.310	1.535
7184	18	19.876	2.272	7256	30	11.286	9.371	7328	26	20.028	14.768	7400	16	12.227	22.236	7465	27	4.170	1.352
7185*	56	20.971	2.596	7257	36	11.518	9.868	7329	16	23.299	14.218	7401	19	12.513	22.284	7466	12	4.190	1.253
7186	23	22.364	2.947	7258	14	14.746	9.566	7330	18	25.610	14.636	7402	17	14.556	22.253	7467	10	6.104	1.615
7187	38	1.253	3.945	7259	30	15.314	9.638	7331*	76	2.710	15.025	7403	22	15.618	22.717	7468	13	8.784	1.755
7188	18	1.780	3.939	7260*	60	16.242	9.332	7332	38	5.830	15.776	7404	37	15.692	22.734	7469*	38	10.786	1.886
7189	30	5.865	3.189	7261*	46	17.693	9.657	7333	14	6.944	15.516	7405	25	17.134	22.094	7470*	80	13.400	1.456
7190	19	7.594	3.046	7262	24	23.888	9.276	7334	36	15.231	15.133	7406*	82	22.106	22.944	7471	34	15.978	1.984
7191	28	9.208	3.455	7263	13	24.724	9.282	7335	42	18.252	15.996	7407	24	2.248	23.254	7472	8	17.509	1.782
7192	20	11.540	3.374	7264	37	1.887	10.067	7336	32	19.456	15.366	7408	19	4.162	23.778	7473	12	18.636	1.468
7193	36	13.538	3.833	7265	12	2.473	10.646	7337	34	19.864	15.085	7409	16	5.025	23.336	7474	12	0.084	2.850
7194	36	17.077	3.229	7266	23	2.809	10.968	7338	16	20.632	15.357	7410	11	5.384	23.644	7475	12	6.514	2.791
7195	41	18.290	3.326	7267	19	7.081	10.622	7339	23	21.074	15.294	7411*	68	6.156	23.928	7476	13	6.536	2.330
7196	34	18.435	3.118	7268	16	9.645	10.434	7340	17	0.881	16.420	7412	18	6.836	23.285	7477	30	6.560	2.520
7197	22	18.650	3.539	7269	32	10.584	10.194	7341	21	10.360	16.760	7413	38	10.520	23.734	7478*	60	11.216	2.724
7198	34	18.862	3.864	7270	13	15.423	10.066	7342*	46	11.702	16.418	7414	24	12.885	23.498	7479	33	14.860	2.693
7199	18	18.918	3.303	7271	34	16.625	10.195	7343	44	12.824	16.513	7415*	52	13.742	23.080	7480	8	21.525	2.119
7200	30	21.070	3.409	7272	12	21.520	10.540	7344	10	15.692	16.589	7416	23	14.252	23.846	7481	10	23.382	2.094
7201	38	1.624	4.858	7273	12	25.810	10.818	7345*	56	16.496	16.126	7417	24	16.078	23.736	7482*	48	5.642	3.191
7202	48	4.296	4.924	7274	48	0.890	11.494	7346	19	21.038	16.032	7418	37	16.170	23.772	7483	23	6.797	3.384
7203	20	6.226	4.954	7275	14	2.197	11.145	7347*	54	21.568	16.084	7419	22	16.384	23.242	7484	14	9.178	3.581
7204	30	8.143	4.904	7276*	74	3.185	11.123	7348	10	21.880	16.337	7420	24	1.294	24.584	7485	37	10.724	3.248
7205	16	14.651	4.789	7277	32	4.561	11.664	7349	12	22.503	16.670	7421	17	1.576	24.724	7486	22	11.081	3.323
7206	36	18.014	4.872	7278	17	4.771	11.388	7350	20	2.373	17.818	7422	16	10.846	24.214	7487	17	14.580	3.701
7207	34	25.026	4.646	7279	16	8.361	11.650	7351	28	8.028	17.852	7423	26	11.400	24.268	7488*	44	15.542	3.406
7208	68	25.266	4.419	7280	16	11.558	11.144	7352	30	8.831	17.230	7424	20	12.824	24.467	7489*	40	17.624	3.931
7209	28	2.266	5.396	7281	16	13.200	11.100	7353	16	10.838	17.090	7425	16	18.202	24.535	7490	24	22.193	3.419
7210*	56	7.828	5.568	7282	16	14.120	11.783	7354	16	17.244	17.901	7426	18	3.361	25.000	7491	33	2.764	4.518
7211	10	11.660	5.312	7283	17	15.249	11.138	7355	21	17.376	17.084	7427	16	3.370	25.176	7492*	51	2.998	4.286
7212	21	12.336	5.638	7284	21	16.134	11.786	7356	44	17.608	17.915	7428	32	5.062	25.866	7493*	71	6.000	4.293
7213	18	14.114	5.635	7285	17	17.730	11.056	7357	19	25.279	17.579	7429	39	6.139	25.371	7494	8	8.004	4.214
7214	17	16.506	5.516	7286	18	19.932	11.290	7358	36	0.720	18.866	7430	37	17.386	25.900	7495	8	9.103	4.632
7215	37	16.607	5.250	7287*	38	20.192	11.986	7359	13	3.006	18.625	7431	16	17.462	25.240	7496	9	10.248	4.630
7216	23	17.145	5.377	7288	17	22.355	11.786	7360	28	5.607	18.334	7432	26	17.783	25.244	7497	47	12.705	4.199
7217	36	18.576	5.437	7289	22	22.915	11.506	7361	23	6.369	18.120	7433	32	18.146	25.726	7498	9	16.288	4.974
7218	17	18.919	5.762	7290	14	24.918	11.518	7362	14	6.760	18.410	7434	37	18.222	25.554	7499	8	19.162	4.238
7219*	76	1.190	6.928	7291	10	25.994	11.739	7363	14	8.766	18.202	7435	50	19.194	25.643	7500	42	23.480	4.548
7220	21	3.922	6.720	7292*	50	2.340	12.648	7364	14	10.153	18.176	7436	34	21.271	25.193	7501	12	5.041	5.726
7221	23	6.191	6.336	7293	14	4.243	12.547	7365	30	13.721	18.794	7437	36	21.692	25.544	7502	12	5.466	5.766
7222	12	7.114	6.212	7294	27	4.369	12.180	7366	37	14.082	18.228					7503	8	5.988	5.934
7223	19	7.300	6.541	7295	40	4.578	12.386	7367	22	14.958	18.827					7504*	44	7.280	5.626
7224	34	9.316	6.784	7296	13	5.798	12.330	7368	24	16.734	18.670					7505	8	8.466	5.054
7225	16	13.175	6.378	7297*	48	7.912	12.996	7369	14	20.597	18.261					7506	8	11.046	5.195
7226	11	14.667	6.193	7298	25	11.066	12.768	7370	22	22.143	18.040					7507	11	13.050	5.779
7227	27	17.671	6.530	7299	16	14.809	12.846	7371	29	24.128	18.924					7508	8	14.524	5.462
7228	16	22.554	6.715	7300	30	14.930	12.726	7372	36	3.979	19.781					7509	10	17.674	5.969
7229	18	10.352	7.846	7301	24	19.060	12.536	7373	20	11.424	19.764					7510	9	17.964	5.800
7230*	80	11.444	7.040	7302	14	19.694	12.343	7374*	52	12.436	19.370					7511	9	22.227	5.020
7231	26	11.520	7.668	7303	14	19.848	12.382	7375	13	15.094	19.650					7512	31	24.592	5.949
7232	39	11.689	7.777	7304	37	20.656	12.617	7376	11	15.820	19.556					7513	8	0.320	6.614
7233	36	15.508	7.908	7305	36	23.448	12.642	7377	16	16.826	19.882					7514	8	2.805	6.697
7234	12	15.639	7.829	7306	40	0.164	13.888	7378	38	17.736	19.462					7515	11	12.153	6.376
7235	15	18.810	7.852	7307	13	0.330	13.532	7379*	64	22.471	19.448					7516	9	12.332	6.682
7236	29	19.814	7.350	7308	40	2.080	13.799	7380	36	0.358	20.977					7517	38	15.426	6.475
7237	28	22.054	7.214	7309	36	8.162	13.792	7381*	72	9.056	20.562					7518	33	16.234	6.322
7238	34	5.112	8.496	7310	26	9.640	13.367	7382	22	9.474	20.168					7519	21	18.332	6.054
7239	36	5.504	8.646	7311	19	19.028	13.827	7383	21	9.694	20.570					7520	25	24.995	6.388
7240	20	7.589	8.994	731															

7527*	53	3.636	8.830	7599	15	8.213	13.926	7671	9	1.195	20.585	<div>R.A. 4^h 24^m</div> <div>Plate 839 ; 1916 Nov. 25.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—0.2535 +.00989 +.1115</div> <div>D E F</div> <div>—0.0988 —.02546 —.2513</div> <div>Mag. = 15.6 — 1.05√d</div>	7806*	58	23.911	6.150
7528	24	7.735	8.434	7600*	82	8.887	13.459	7672	9	4.944	20.225		7807	21	25.964	6.512
7529	17	8.218	8.196	7601	14	11.920	13.066	7673	41	7.174	20.016		7808	21	1.602	7.161
7530	17	8.515	8.256	7602	36	13.400	13.550	7674	30	8.307	20.287		7809	25	2.593	7.274
7531	31	9.972	8.118	7603	12	15.580	13.355	7675	40	11.338	20.188		7810	28	10.504	7.690
7532*	58	11.256	8.900	7604	8	16.145	13.658	7676	10	13.469	20.447		7811*	33	12.840	7.910
7533	14	13.534	8.815	7605	9	16.855	13.866	7677	26	14.080	20.894		7812	12	13.160	7.334
7534*	50	13.619	8.819	7606	31	17.394	13.556	7678	8	18.918	20.874		7813	12	16.926	7.792
7535	10	14.130	8.026	7607	23	18.945	13.522	7679	28	22.256	20.470		7814*	25	18.591	7.001
7536	10	14.314	8.375	7608	11	19.916	13.623	7680	11	5.334	21.454		7815	24	19.158	7.184
7537	10	17.772	8.000	7609	8	20.345	13.303	7681	41	5.963	21.182	7816	12	19.326	7.964	
7538	29	19.724	8.985	7610	9	1.150	14.114	7682*	64	11.151	21.272	7817	8	25.324	7.277	
7539	11	22.804	8.250	7611	10	3.464	14.500	7683	8	11.401	21.864	7818	10	0.450	8.367	
7540	8	0.694	9.332	7612	8	5.036	14.151	7684	8	11.586	21.879	7819	14	10.528	8.602	
7541	12	1.681	9.159	7613	11	5.294	14.165	7685	9	15.512	21.551	7820	26	13.094	8.669	
7542	8	2.516	9.157	7614	14	5.854	14.442	7686	8	17.155	21.902	7821	19	13.112	8.640	
7543	42	8.485	9.844	7615	17	8.680	14.086	7687	36	17.925	21.406	7822	19	24.650	8.408	
7544	10	9.874	9.715	7616	14	17.104	14.426	7688	26	19.180	21.232	7823	19	1.910	9.176	
7545	8	11.444	9.386	7617*	40	18.636	14.643	7689	21	19.948	21.813	7824	9	2.112	9.587	
7546	8	11.746	9.584	7618	8	19.392	14.736	7690	10	20.325	21.473	7825	10	3.803	9.156	
7547	9	11.759	9.250	7619	10	21.102	14.810	7691*	44	23.100	21.274	7826	12	6.130	9.408	
7548	12	13.276	9.246	7620	12	23.502	14.012	7692	10	0.052	22.850	7827	9	7.422	9.400	
7549	41	15.580	9.364	7621	16	25.539	14.090	7693	45	6.932	22.085	7828	8	10.842	9.629	
7550	20	16.926	9.020	7622	19	4.360	15.548	7694	24	9.980	22.258	7829	10	19.597	9.456	
7551	9	17.939	9.447	7623	18	10.657	15.136	7695	8	12.710	22.704	7758*	41	17.834	1.484	
7552	14	20.566	9.754	7624	26	16.025	15.929	7696	20	12.934	22.963	7759*	56	19.852	1.770	
7553	20	20.815	9.336	7625	10	16.550	15.800	7697	8	13.639	22.924	7760	9	0.924	2.203	
7554	8	20.899	9.226	7626	9	16.570	15.774	7698	19	13.927	22.088	7761	17	7.324	2.273	
7555*	49	21.618	9.778	7627	12	22.756	15.990	7699	40	15.941	22.507	7762	11	12.657	2.413	
7556	20	24.248	9.084	7628	26	23.326	15.709	7700	18	16.076	22.436	7763	21	21.617	2.081	
7557	8	24.441	9.501	7629	8	23.970	15.354	7701	33	16.492	22.893	7764	12	24.514	2.677	
7558	8	24.638	9.985	7630	40	4.144	16.340	7702	22	17.133	22.757	7765	23	5.126	3.120	
7559	9	25.052	9.061	7631	29	6.512	16.238	7703	10	18.050	22.197	7766*	26	9.694	3.828	
7560	12	4.016	10.900	7632	12	9.908	16.304	7704	28	20.439	22.600	7767	8	10.580	3.118	
7561	8	6.956	10.876	7633	21	11.566	16.381	7705	8	24.396	22.454	7768	8	11.311	3.301	
7562	13	7.432	10.427	7634	10	13.634	16.264	7706	8	5.210	23.741	7769	18	12.509	3.862	
7563	8	8.064	10.731	7635	8	13.656	16.270	7707	19	8.470	23.194	7770	9	14.018	3.102	
7564	30	8.930	10.150	7636	8	14.267	16.664	7708	8	8.783	23.274	7771	18	14.976	3.806	
7565	47	10.606	10.096	7637	25	22.754	16.108	7709	20	10.870	23.348	7772	9	15.834	3.468	
7566	16	13.292	10.878	7638	22	22.862	16.076	7710	8	11.653	23.613	7773	16	17.014	3.470	
7567	8	13.976	10.430	7639	10	0.039	17.942	7711	16	12.863	23.625	7774	12	21.382	3.222	
7568	16	17.380	10.527	7640	8	3.168	17.446	7712	17	15.800	23.754	7775	32	1.064	4.653	
7569	11	20.819	10.089	7641	9	7.242	17.122	7713	8	16.021	23.869	7776	14	6.870	4.393	
7570	12	23.383	10.246	7642	12	14.794	17.644	7714	42	16.249	23.924	7777	13	7.509	4.966	
7571	9	25.316	10.863	7643	30	17.136	17.127	7715	8	19.838	23.104	7778	11	8.406	4.010	
7572	10	0.733	11.400	7644	8	19.575	17.820	7716	8	22.780	23.454	7779	10	8.609	4.475	
7573	8	2.740	11.392	7645	18	20.396	17.880	7717	10	25.359	23.025	7780*	52	10.134	4.538	
7574	10	3.815	11.598	7646	8	21.514	17.542	7718	8	1.437	24.134	7781	9	13.130	4.539	
7575	12	4.806	11.384	7647	30	21.690	17.329	7719	20	9.366	24.476	7782	11	17.346	4.400	
7576	12	6.275	11.034	7648	13	2.035	18.810	7720	12	11.872	24.675	7783	10	20.300	4.846	
7577	8	6.476	11.883	7649	8	6.400	18.108	7721	8	12.562	24.355	7784	9	24.607	4.831	
7578	8	6.811	11.552	7650	33	6.986	18.454	7722	9	16.266	24.413	7785	11	25.408	4.794	
7579*	60	8.188	11.806	7651	8	11.052	18.786	7723*	54	17.138	24.631	7786*	47	4.528	5.514	
7580	11	9.068	11.682	7652	20	16.032	18.355	7724	34	17.272	24.662	7787	11	4.597	5.318	
7581	21	10.672	11.593	7653	21	19.256	18.344	7725	8	18.823	24.430	7788	19	7.330	5.144	
7582	15	12.541	11.957	7654	9	19.662	18.003	7726	9	21.066	24.436	7789	10	9.782	5.498	
7583	8	14.057	11.950	7655	13	23.848	18.643	7727	8	22.862	24.225	7790	20	13.530	5.163	
7584	32	14.200	11.699	7656	39	23.974	18.951	7728	8	23.136	24.346	7791	30	16.015	5.771	
7585	34	1.276	12.534	7657	54	0.378	19.350	7729	8	3.363	25.482	7792	8	22.260	5.514	
7586	13	5.445	12.050	7658	24	7.648	19.242	7730	35	5.192	25.760	7793	21	2.199	6.036	
7587	28	10.004	12.936	7659	22	8.166	19.126	7731	33	11.906	25.338	7794	20	2.609	6.469	
7588	23	11.864	12.120	7660	8	10.649	19.386	7732	8	16.368	25.601	7795*	32	5.734	6.001	
7589																

7878	10	15.637	14.449	7950	16	21.066	22.950	8015	17	5.488	2.327	8087	40	21.158	7.071	8159	15	10.290	11.951
7879	27	17.530	14.200	7951	10	22.560	22.742	8016	10	5.906	2.446	8088	19	21.429	7.905	8160	20	10.333	11.781
7880	19	17.766	14.009	7952	10	24.114	22.710	8017	36	6.728	2.413	8089	21	25.074	7.476	8161	9	10.433	11.811
7881	8	18.530	14.860	7953	11	3.266	23.100	8018	15	7.344	2.172	8090	38	2.468	8.900	8162	39	10.620	11.321
7882*	40	19.943	14.253	7954	26	4.810	23.251	8019*	45	7.382	2.270	8091	21	3.856	8.576	8163	32	12.674	11.730
7883	18	1.101	15.818	7955	22	5.665	23.204	8020	36	8.232	2.624	8092*	47	5.256	8.968	8164	8	14.900	11.124
7884	8	1.742	15.452	7956	12	7.566	23.608	8021	26	10.854	2.720	8093	25	5.769	8.808	8165	33	15.286	11.862
7885	24	6.684	15.087	7957	26	8.554	23.190	8022	31	11.476	2.030	8094	36	8.092	8.229	8166	30	15.880	11.812
7886	10	6.828	15.992	7958	25	11.362	23.964	8023	20	11.956	2.541	8095*	39	8.802	8.682	8167	9	16.321	11.264
7887	11	10.625	15.402	7959	8	13.918	23.532	8024	15	15.428	2.996	8096	19	9.222	8.168	8168	33	22.496	11.448
7888	32	11.224	15.153	7960	8	13.988	23.393	8025	31	17.210	2.335	8097	15	10.644	8.998	8169*	51	24.064	11.201
7889	11	15.308	15.816	7961	32	14.146	23.580	8026	15	18.607	2.608	8098	19	10.870	8.860	8170	39	0.634	12.274
7890	20	16.440	15.922	7962	10	14.772	23.190	8027	44	18.916	2.372	8099	8	11.237	8.671	8171	19	1.675	12.102
7891	12	19.160	15.864	7963	12	15.506	23.273	8028	20	18.998	2.850	8100*	77	12.574	8.524	8172	21	1.747	12.012
7892	9	21.774	15.142	7964	20	16.028	23.458	8029*	56	22.044	2.791	8101	39	13.144	8.410	8173*	47	1.924	12.182
7893	11	22.505	15.163	7965*	41	16.535	23.468	8030	8	25.114	2.919	8102	8	14.522	8.064	8174	17	6.524	12.578
7894	22	0.536	16.227	7966	12	17.543	23.974	8031	32	2.304	3.172	8103	37	14.934	8.390	8175	24	7.240	12.776
7895	17	0.644	16.194	7967	8	19.238	23.758	8032	15	3.258	3.265	8104*	74	16.691	8.188	8176*	57	17.510	12.816
7896	8	5.745	16.112	7968*	28	23.741	23.558	8033	20	6.741	3.510	8105	22	18.399	8.082	8177	15	19.494	12.792
7897*	40	11.096	16.117	7969	12	5.167	24.424	8034	38	9.568	3.034	8106	17	19.962	8.949	8178	17	19.634	12.940
7898	18	23.898	16.564	7970	8	8.191	24.272	8035	33	10.936	3.189	8107	9	20.624	8.606	8179	25	23.418	12.112
7899*	37	24.384	16.314	7971	14	8.924	24.036	8036	32	12.152	3.161	8108	38	24.818	8.114	8180	42	23.526	12.624
7900	40	6.068	17.562	7972	12	12.196	24.640	8037	19	17.114	3.340	8109	9	0.436	9.231	8181	28	24.215	12.132
7901	32	6.380	17.614	7973	21	19.438	24.678	8038	40	19.216	3.849	8110	55	0.898	9.964	8182	44	25.132	12.116
7902	8	8.806	17.841	7974	21	19.620	24.031	8039	29	20.108	3.876	8111	26	1.700	9.885	8183	31	25.672	12.998
7903	29	9.238	17.732	7975	10	22.050	24.720	8040	28	23.426	3.753	8112	12	2.671	9.116	8184	12	0.562	13.469
7904	13	9.461	17.989	7976	33	22.838	24.916	8041	12	0.984	4.544	8113	27	5.635	9.841	8185	14	5.764	13.434
7905	9	10.750	17.904	7977	15	2.490	25.090	8042	14	3.430	4.492	8114	11	9.872	9.251	8186	16	6.522	13.532
7906	15	15.436	17.060	7978	14	3.914	25.114	8043	9	3.446	4.626	8115	15	11.414	9.288	8187	10	7.316	13.238
7907	18	16.064	17.763	7979	31	10.371	25.563	8044	32	5.026	4.538	8116	19	11.636	9.607	8188	12	8.151	13.558
7908	12	16.294	17.096	7980	8	10.753	25.785	8045	8	5.902	4.534	8117	9	12.176	9.802	8189	39	8.411	13.952
7909	8	19.638	17.760	7981	9	12.362	25.522	8046	35	6.774	4.519	8118	32	12.605	9.236	8190	8	10.324	13.736
7910	9	23.163	17.649	7982	20	17.250	25.969	8047	8	11.795	4.916	8119	8	12.886	9.477	8191*	42	11.976	13.659
7911	8	23.571	17.274	7983	8	20.504	25.281	8048	14	12.388	4.648	8120	8	13.238	9.800	8192	14	13.592	13.360
7912	11	1.676	18.746					8049	23	13.472	4.322	8121	20	13.545	9.152	8193*	47	13.800	13.674
7913	20	7.584	18.754					8050	9	13.968	4.613	8122*	41	13.994	9.742	8194	19	15.553	13.014
7914	9	7.756	18.920					8051	10	16.634	4.274	8123	32	15.055	9.828	8195	9	16.018	13.926
7915	10	11.368	18.499					8052	36	20.516	4.034	8124	23	15.140	9.344	8196	40	21.327	13.134
7916	8	15.130	18.622					8053	25	2.406	5.324	8125	17	16.736	9.910	8197	35	1.728	14.010
7917	25	16.303	18.578					8054	29	3.208	5.284	8126	8	17.272	9.861	8198	38	4.124	14.934
7918	17	16.740	18.366					8055	8	9.845	5.155	8127	30	17.298	9.268	8199	38	5.388	14.065
7919	15	17.974	18.536					8056	23	11.072	5.142	8128	8	17.358	9.824	8200	13	6.066	14.598
7920	15	18.280	18.888					8057*	43	12.748	5.471	8129	36	21.189	9.290	8201	32	7.396	14.735
7921	20	18.520	18.472					8058	26	15.592	5.344	8130	20	22.022	9.321	8202	8	12.366	14.656
7922	12	19.162	18.165					8059	11	24.478	5.231	8131	20	22.707	9.824	8203	17	14.414	14.702
7923	23	21.312	18.232					8060	30	24.984	5.191	8132	12	22.787	9.483	8204	35	17.794	14.607
7924	10	23.738	18.088					8061	17	0.066	6.015	8133	24	24.365	9.676	8205	28	18.018	14.788
7925	22	0.225	19.880					8062	40	0.107	6.815	8134	9	1.120	10.235	8206	37	18.956	14.324
7926	34	1.802	19.052					8063*	05	1.712	6.646	8135	40	1.459	10.135	8207	10	20.404	14.937
7927	13	3.039	19.366					8064	41	3.774	6.998	8136	10	1.486	10.872	8208	40	22.946	14.932
7928*	42	8.464	19.473					8065	34	6.222	6.236	8137	8	1.712	10.582	8209	20	24.445	14.970
7929	11	22.084	19.141					8066	33	6.227	6.661	8138	10	6.190	10.636	8210	19	0.360	15.666
7930	18	0.120	20.600					8067	38	7.650	6.681	8139	8	9.175	10.484	8211	9	4.428	15.802
7931	12	5.128	20.496					8068	25	11.614	6.417	8140	9	9.563	10.576	8212	24	7.071	15.576
7932	9	8.558	20.472					8069	9	12.533	6.811	8141	13	9.890	10.639	8213	28	8.398	15.975
7933	11	9.112	20.258					8070	8	12.871	6.168	8142	10	12.222	10.144	8214	9	9.154	15.299
7934*	47	15.050	20.426					8071	37	13.193	6.381	8143	11	12.826	10.132	8215	14	11.817	15.878
7935	12	16.110	20.436					8072	23	16.355	6.562	8144	10	13.757	10.200	8216	13	15.796	15.082
7936	12	20.030	20.758					8073	10	18.707	6.980	8145	30	13.771	10.216	8217	44	17.512	15.552
7937	10	20.314	20.213					8074	35	20.955	6.646	8146	9	14.133	10.135	8218	11	19.066	15.080
7938	17	22.584	20.618					8075	9	21.134	6.878	8147	27	14.379	10.644	8219	11	20.403	15.026
7939	10	25.524	20.594					8076	14	25.611	6.588	8148	9	17.154	10.365	8220	40	21.575	15.244
7940	36	0.970	21.384					8077	20	25.965	6.637	8149	22	19.788	10.590	8221	10	22.672	15.661
7941*	44	4.616	21.335					8078	21	3.136	7.765	8150	19	19.965	10.314	8222	37	23.982	15.814
7942	9	9.698	21.024					8079	17	3.542	7.080	8151	15	20.584	10.367	8223*	43	2.244	16.807
7943	22	11.244	21.373					8080	18	4.455	7.094	8152	22	24.008	10.100	8224	10	4.600	16.576
7944	10	11.468	21.380					8081	31	5.156	7.944	8153	42	24.565	10.915	8225	10	7.676	16.660
7945	8	16.674	21.546					8082	9	5.666	7.258	8154	8	1.354	11.664	8226	16	8.385	16.005
7946																			

8231	12	1.438	17.770	8303	11	22.160	22.440	8361	16	13.740	1.825	8433	9	10.560	6.338	8505	17	6.604	11.540
8232	40	1.764	17.059	8304	32	0.462	23.246	8362	10	13.870	1.956	8434	28	15.443	6.459	8506	22	12.584	11.990
8233	9	1.955	17.255	8305	25	2.014	23.199	8363	45	14.015	1.936	8435*	64	15.989	6.600	8507	23	16.806	11.590
8234	15	2.864	17.631	8306	36	7.214	23.100	8364	36	14.550	1.329	8436	14	16.184	6.412	8508	25	17.218	11.469
8235	18	4.892	17.560	8307	37	7.984	23.090	8365	14	16.257	1.098	8437	8	18.078	6.862	8509	9	18.684	11.080
8236*	61	5.997	17.264	8308	8	10.184	23.471	8366	9	21.266	1.087	8438	17	19.340	6.600	8510	18	19.714	11.034
8237	18	8.810	17.618	8309	10	10.230	23.700	8367	38	24.812	1.558	8439	17	22.041	6.320	8511	11	21.156	11.966
8238	42	13.166	17.170	8310*	45	12.072	23.532	8368	11	2.326	2.673	8440	10	22.994	6.926	8512	26	21.902	11.567
8239	38	13.970	17.723	8311	11	12.103	23.192	8369	12	2.673	2.768	8441	26	2.410	7.965	8513	14	22.464	11.696
8240	13	19.215	17.106	8312	12	15.196	23.006	8370	15	9.390	2.561	8442	8	2.434	7.280	8514	25	22.620	11.380
8241	22	21.554	17.218	8313	15	15.518	23.536	8371	16	12.404	2.340	8443	16	2.660	7.328	8515	19	25.262	11.490
8242	34	21.863	17.158	8314	15	20.826	23.899	8372	12	16.008	2.911	8444	17	6.752	7.358	8516	9	0.490	12.257
8243	27	22.012	17.058	8315	30	21.386	23.366	8373	11	16.466	2.608	8445*	51	11.255	7.820	8517	51	1.149	12.486
8244	24	22.646	17.416	8316	42	25.144	23.366	8374	11	16.526	2.738	8446*	55	14.466	7.396	8518	20	3.294	12.844
8245	13	22.706	17.210	8317	11	25.484	23.725	8375	22	17.084	2.051	8447	21	15.290	7.470	8519*	60	8.490	12.640
8246	21	1.034	18.145	8318*	46	1.648	24.057	8376	21	18.859	2.986	8448	10	15.618	7.682	8520	10	8.751	12.395
8247	12	1.178	18.260	8319	9	1.951	24.938	8377*	64	19.575	2.292	8449	16	16.528	7.284	8521	9	10.196	12.665
8248	25	1.612	18.583	8320	24	4.125	24.999	8378*	54	19.836	2.352	8450	15	20.822	7.308	8522	37	13.179	12.578
8249	9	5.488	18.677	8321	18	6.392	24.626	8379*	57	20.784	2.404	8451	27	20.866	7.194	8523	25	16.350	12.994
8250	8	8.954	18.646	8322	17	6.612	24.782	8380	11	21.098	2.396	8452	49	22.911	7.541	8524	11	16.562	12.386
8251	29	9.229	18.113	8323	30	7.414	24.478	8381*	126	21.582	2.122	8453	8	23.590	7.326	8525*	71	18.440	12.510
8252	14	11.102	18.295	8324	23	11.450	24.159	8382	20	22.342	2.925	8454	23	23.616	7.520	8526	25	20.092	12.380
8253	27	12.550	18.744	8325	32	14.924	24.697	8383	17	0.990	3.614	8455	26	25.399	7.521	8527	23	22.890	12.942
8254	37	12.584	18.722	8326*	44	18.808	24.739	8384	23	4.552	3.736	8456	8	1.491	8.703	8528	11	23.134	12.722
8255*	58	16.659	18.848	8327	19	21.358	24.252	8385	13	5.278	3.674	8457	10	5.003	8.198	8529	10	24.163	12.969
8256	28	20.058	18.470	8328	10	22.738	24.142	8386	10	10.758	3.413	8458	11	5.848	8.990	8530	18	24.399	12.342
8257	8	21.776	18.848	8329	42	0.752	25.415	8387	10	11.843	3.136	8459	23	7.450	8.576	8531	9	0.342	13.242
8258	31	23.008	18.873	8330	10	3.091	25.536	8388	10	14.506	3.541	8460	11	8.422	8.960	8532	13	6.474	13.480
8259	43	23.374	18.336	8331	9	4.254	25.203	8389	18	15.050	3.197	8461	33	8.960	8.297	8533	26	7.520	13.982
8260	8	2.690	19.954	8332	35	6.131	25.103	8390*	41	22.113	3.762	8462	12	8.960	8.882	8534	12	13.280	13.398
8261	11	4.729	19.916	8333	18	6.404	25.314	8391	26	22.662	3.264	8463	12	13.611	8.299	8535	15	13.992	13.400
8262	14	10.376	19.866	8334	8	8.234	25.152	8392*	37	24.796	3.555	8464	13	16.517	8.830	8536	22	15.605	13.964
8263*	46	13.781	19.356	8335	8	9.241	25.560	8393	14	24.994	3.174	8465	47	17.001	8.122	8537	27	17.250	13.736
8264	18	15.815	19.248	8336	10	9.418	25.273	8394	14	3.838	4.760	8466	14	17.840	8.428	8538	34	18.728	13.240
8265	42	21.278	19.853	8337	26	13.577	25.145	8395	17	8.728	4.614	8467	9	18.578	8.146	8539	35	24.634	13.756
8266	38	21.958	19.517	8338	41	14.314	25.895	8396	38	10.357	4.940	8468	34	18.771	8.170	8540	28	0.584	14.800
8267	34	23.842	19.066	8339	46	20.976	25.326	8397	17	10.520	4.084	8469	10	18.921	8.179	8541	17	2.087	14.826
8268	38	5.694	20.454	8340	20	22.536	25.114	8398	28	13.064	4.460	8470	10	19.020	8.742	8542	10	4.670	14.819
8269	21	6.820	20.246	8341	8	23.479	25.190	8399	14	13.868	4.733	8471	28	19.098	8.342	8543	13	6.800	14.257
8270	38	9.240	20.105					8400	10	14.081	4.650	8472	26	19.774	8.718	8544*	47	8.099	14.006
8271	34	11.949	20.185					8401	14	15.235	4.100	8473	14	21.301	8.726	8545*	64	8.470	14.220
8272	38	18.202	20.648					8402	16	18.088	4.059	8474	16	22.958	8.872	8546	10	9.710	14.218
8273	10	19.511	20.833					8403	10	19.392	4.941	8475	12	24.560	8.075	8547	13	10.792	14.887
8274	13	23.184	20.652					8404	13	20.298	4.698	8476	26	25.848	8.916	8548	10	10.818	14.890
8275	39	0.473	21.119					8405	10	20.768	4.201	8477	17	0.309	9.696	8549	13	11.922	14.940
8276	40	2.114	21.898					8406	33	22.314	4.882	8478	12	0.392	9.356	8550	25	13.091	14.720
8277	39	3.415	21.081					8407	75	25.485	4.346	8479	9	1.325	9.547	8551	10	16.886	14.298
8278	44	4.716	21.070					8408	12	1.326	5.368	8480	14	1.615	9.957	8552	45	18.010	14.330
8279	42	4.983	21.858					8409	25	2.553	5.043	8481	15	1.964	9.534	8553	40	18.928	14.110
8280	38	5.238	21.159					8410	33	5.442	5.016	8482	10	3.774	9.626	8554	10	20.205	14.906
8281	12	8.646	21.552					8411	13	5.646	5.595	8483	21	5.249	9.434	8555	19	21.076	14.793
8282	8	10.152	21.895					8412	10	6.186	5.470	8484	11	6.350	9.300	8556	29	21.406	14.363
8283	26	13.976	21.006					8413	10	7.342	5.300	8485	9	7.394	9.420	8557	11	0.316	15.533
8284	25	15.614	21.885					8414	15	8.088	5.470	8486	34	14.277	9.659	8558	27	1.626	15.672
8285	23	15.572	21.435					8415	23	8.351	5.430	8487	35	15.212	9.443	8559	52	4.050	15.297
8286	29	15.754	21.964					8416	10	10.342	5.180	8488	14	20.454	9.791	8560	8	4.259	15.480
8287	14	16.467	21.908					8417	10	13.030	5.440	8489	9	25.431	9.832	8561	20	4.942	15.588
8288	37	24.742	21.146					8418	8	15.294	5.308	8490	30	2.174	10.771	8562	10	9.115	15.040
8289	8	1.744	22.812					8419	8	17.016	5.983	8491*	31	4.084	10.274	8563	15	13.015	15.657
8290	10	3.126	22.606					8420	48	17.905	5.702	8492	13	5.488	10.843	8564	16	17.995	15.586
8291	9	4.122	22.070					8421	26	18.501	5.670	8493	13	7.570	10.690	8565	12	18.350	15.373
8292	9	5.206	22.278					8422	55	20.564	5.794	8494	34	11.078	10.220	8566	58	0.170	16.062
8293*	45	6.062	22.983					8423*	76	20.644	5.739	8495	36	13.959	10.760	8567	12	3.454	16.050
8294	29	7.770	22.900					8424	10	24.616	5.303	8496	13	15.052	10.806	8568	32	5.457	16.606
8295	33	14.401	22.735					8425	8	24.798	5.921	8497	37	15.600	10.576	8569	12	6.081	16.400
8296	9	14.836	22.280					8426	22	25.290	5.030	8498	20	0.111	11.317	8570	8	6.088	16.112
8297	10	15.348	22.894					8427	14	3.194	6.438	8499	18	1.038	11.975	8571	13	9.070	16.896
8298	33	15.376	22.078					8428											

8577	30	23.625	16.590	8649	18	5.326	22.138	<div>R.A. 4^h 48^m</div> <div>Plate 856; 1916 Nov. 27.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>−.02572 +.00398 +.2148</div> <div>D E F</div> <div>−.00427 −.02585 −.0951</div> <div>Mag.=16.7−1.05√<i>d</i></div>	8806	22	12.977	4.636	8878	42	8.914	11.386
8578	12	25.666	16.323	8650	11	11.366	22.740		8807	28	13.169	4.676	8879	13	9.583	11.120
8579	15	0.306	17.288	8651*	150	12.100	22.424		8808	24	14.191	4.993	8880	38	11.186	11.855
8580	11	0.360	17.078	8652	21	13.343	22.188		8809*	51	18.850	4.024	8881	8	12.541	11.174
8581	37	3.777	17.831	8653	9	13.869	22.908		8810*	45	22.897	4.301	8882	22	12.749	11.824
8582	21	7.030	17.608	8654	20	15.988	22.372		8811	24	25.436	4.172	8883	32	14.422	11.973
8583	18	8.202	17.569	8655	42	16.040	22.620		8812	27	0.010	5.036	8884	41	14.488	11.542
8584	16	9.751	17.662	8656	24	16.206	22.934		8813	8	2.320	5.427	8885	10	14.516	11.162
8585	12	10.336	17.638	8657	10	17.950	22.108		8814	24	2.995	5.142	8886	37	15.250	11.971
8586	10	11.450	17.685	8658	29	19.940	22.018		8815	13	7.976	5.360	8887	9	16.399	11.050
8587	46	14.170	17.986	8659	12	20.554	22.034	8816	11	7.980	5.326	8888	23	16.704	11.605	
8588	35	15.646	17.632	8660	22	22.463	22.620	8817	8	8.597	5.026	8889	11	17.445	11.852	
8589	10	18.950	17.724	8661	26	24.208	22.490	8818	28	9.963	5.832	8890*	52	21.630	11.626	
8590*	41	19.099	17.434	8662	41	2.842	23.218	8819	32	9.985	5.854	8891*	73	23.432	11.274	
8591	8	19.232	17.568	8663	13	3.189	23.576	8820	11	18.810	5.358	8892	39	24.420	11.67	
8592*	59	23.655	17.525	8664	25	4.324	23.280	8821	23	21.196	5.834	8893	16	2.200	12.464	
8593	27	0.676	18.738	8665	31	6.564	23.750	8822	12	3.720	6.798	8894	8	4.946	12.049	
8594*	48	1.036	18.200	8666	17	7.046	23.152	8823	22	3.976	6.572	8895	8	7.066	12.388	
8595	19	1.512	18.925	8667	8	8.080	23.312	8824	41	4.056	6.676	8896	15	8.472	12.376	
8596	11	8.150	18.079	8668	16	12.868	23.114	8825	18	6.734	6.110	8897	22	8.841	12.846	
8597	23	10.768	18.238	8669	18	13.056	23.354	8826	40	8.374	6.555	8898	36	9.352	12.834	
8598	15	12.779	18.892	8670	21	13.288	23.612	8827	8	8.802	6.801	8899	8	13.480	12.186	
8599	13	13.810	18.160	8671	18	14.918	23.952	8828	26	10.732	6.488	8900*	55	15.997	12.415	
8600	12	17.005	18.904	8672	13	16.446	23.186	8829	13	11.176	6.450	8901	22	17.920	12.664	
8601	27	20.198	18.281	8673	15	24.850	23.410	8830	11	14.046	6.784	8902	24	18.214	12.758	
8602	43	21.382	18.594	8674	10	25.211	23.222	8831	33	14.156	6.150	8903	27	23.122	12.223	
8603	26	22.070	18.090	8675	13	0.252	24.980	8832	12	16.072	6.982	8904	11	23.963	12.095	
8604	53	25.934	18.966	8676	9	4.526	24.382	8833*	55	22.735	6.743	8905	17	0.700	13.088	
8605	10	6.650	19.460	8677	26	5.066	24.230	8834	43	0.644	7.688	8906	33	2.456	13.876	
8606	19	7.900	19.314	8678	19	7.775	24.625	8835	19	1.352	7.655	8907	10	5.148	13.312	
8607	26	7.966	19.885	8679	42	7.902	24.405	8836	27	3.132	7.632	8908	22	6.464	13.204	
8608	8	13.269	19.968	8680	18	9.144	24.666	8837	34	6.356	7.810	8909	8	6.976	13.543	
8609	12	17.020	19.674	8681	10	11.752	24.586	8838	11	9.695	7.396	8910	31	7.089	13.200	
8610	23	17.020	19.010	8682*	53	12.696	24.116	8839	27	16.106	7.572	8911	8	7.726	13.250	
8611	23	18.638	19.584	8683*	60	12.952	24.180	8840	14	18.383	7.522	8912	15	8.424	13.976	
8612*	76	19.592	19.226	8684	27	13.390	24.140	8841	8	18.941	7.930	8913	11	9.872	13.078	
8613	17	19.732	19.826	8685	22	13.930	24.938	8842	39	21.348	7.874	8914	20	12.300	13.718	
8614	11	19.924	19.336	8686	27	14.268	24.895	8843	10	2.302	8.194	8915	10	15.060	13.746	
8615	19	24.866	19.276	8687	12	14.462	24.980	8844	8	5.465	8.510	8916	8	17.234	13.314	
8616	24	25.070	19.114	8688	31	16.064	24.215	8845	24	8.234	8.787	8917	33	17.422	13.474	
8617	12	0.865	20.521	8689	48	22.452	24.350	8846	33	10.080	8.210	8918	15	18.117	13.890	
8618	29	3.933	20.330	8690	10	22.792	24.886	8847	30	10.694	8.898	8919	25	18.975	13.394	
8619	16	3.960	20.436	8691	18	23.480	24.542	8848	20	12.000	8.386	8920	9	21.875	13.705	
8620	10	4.371	20.166	8692	20	23.772	24.160	8849	10	13.212	8.574	8921	33	22.755	13.224	
8621	14	7.594	20.502	8693	11	0.646	25.949	8850	12	15.726	8.135	8922	18	22.816	13.908	
8622	14	8.780	20.213	8694	11	0.900	25.995	8851	12	17.346	8.536	8923	9	23.750	13.452	
8623	11	10.888	20.183	8695	10	1.198	25.055	8852	21	21.838	8.366	8924	8	4.264	14.721	
8624	11	11.680	20.209	8696	9	6.712	25.149	8853	11	21.991	8.857	8925	10	7.858	14.826	
8625	8	12.575	20.726	8697	11	9.307	25.430	8854	10	23.984	8.548	8926	8	8.946	14.675	
8626	14	13.176	20.290	8698	11	9.421	25.395	8855	33	25.470	8.505	8927	25	10.272	14.340	
8627	39	15.379	20.765	8699*	71	13.265	25.104	8856	12	0.710	9.014	8928	35	12.014	14.072	
8628	27	21.124	20.090	8700	26	14.152	25.889	8857	8	0.771	9.778	8929	8	12.196	14.154	
8629	12	21.329	20.039	8701	21	15.154	25.190	8858	27	3.601	9.022	8930	35	13.189	14.068	
8630	9	1.740	21.508	8702	18	16.418	25.860	8859	10	4.345	9.035	8931	25	13.636	14.490	
8631	26	2.428	21.000	8703	13	18.396	25.768	8860	10	8.700	9.085	8932	8	14.454	14.168	
8632	8	3.561	21.734	8704	12	18.606	25.193	8861	20	9.840	9.094	8933	10	14.724	14.142	
8633	22	4.422	21.148					8862	10	15.301	9.542	8934	10	16.424	14.115	
8634	9	9.930	21.695					8863*	43	17.193	9.406	8935	11	17.920	14.296	
8635	20	11.180	21.181					8864	30	19.066	9.168	8936	19	22.025	14.476	
8636	35	11.576	21.807					8865	35	20.674	9.832	8937	27	22.328	14.408	
8637	13	12.738	21.210					8866	25	21.320	9.606	8938	21	8.636	15.680	
8638	25	13.320	21.270					8867	9	21.441	9.495	8939	9	8.922	15.932	
8639	9	14.178	21.722					8868	19							

8950	35	1.488	16.724	9022	24	2.814	23.530	9106*	51	12.930	0.858	9178	20	8.147	5.546	9250	10	23.927	9.596
8951	13	3.525	16.427	9023	11	3.168	23.334	9107	27	13.016	0.224	9179	20	9.706	5.157	9251	18	24.125	9.125
8952	8	6.300	16.707	9024	8	7.260	23.440	9108	12	13.852	0.418	9180	23	11.363	5.977	9252	12	25.689	9.839
8953	8	6.491	16.800	9025	10	7.394	23.800	9109	9	14.718	0.516	9181	10	11.616	5.593	9253	8	3.703	10.764
8954	8	8.044	16.134	9026	28	10.229	23.997	9110	9	15.216	0.346	9182	8	11.835	5.062	9254	8	3.870	10.304
8955	8	9.696	16.377	9027	8	12.812	23.909	9111	24	15.418	0.678	9183	32	14.072	5.214	9255	13	5.554	10.548
8956	14	12.628	16.434	9028	36	13.124	23.012	9112	9	17.300	0.771	9184	16	18.956	5.464	9256	24	9.270	10.746
8957	22	12.866	16.302	9029	9	13.704	23.194	9113	11	18.000	0.726	9185	8	19.304	5.496	9257	10	11.754	10.724
8958	30	13.248	16.649	9030	9	16.010	23.256	9114	11	18.986	0.172	9186	8	19.672	5.129	9258	8	12.711	10.152
8959	26	13.955	16.113	9031	8	16.224	23.800	9115	10	20.336	0.936	9187	10	20.046	5.975	9259	14	14.204	10.123
8960	34	22.088	16.126	9032	10	20.704	23.614	9116	9	25.514	0.421	9188	16	22.515	5.375	9260	11	15.124	10.133
8961	14	23.828	16.646	9033	13	22.501	23.970	9117	10	1.464	1.091	9189	10	23.503	5.836	9261	9	17.919	10.805
8962*	54	1.525	17.660	9034	13	23.194	23.621	9118	11	3.966	1.671	9190	10	24.674	5.655	9262	11	24.210	10.155
8963	39	4.223	17.906	9035	11	24.526	23.550	9119	13	6.724	1.024	9191	44	0.463	6.746	9263	15	24.337	10.707
8964	18	7.260	17.481	9036	44	0.424	24.498	9120	9	10.551	1.976	9192	16	3.965	6.135	9264	38	25.121	10.102
8965	10	7.294	17.302	9037	17	1.455	24.680	9121	10	10.670	1.686	9193*	37	5.253	6.124	9265*	62	1.215	11.272
8966	24	11.116	17.474	9038	20	1.746	24.292	9122	9	12.614	1.294	9194	8	5.311	6.303	9266	26	2.209	11.666
8967	8	19.790	17.532	9039	8	2.642	24.702	9123	21	12.858	1.222	9195	8	5.434	6.411	9267	8	3.898	11.128
8968	13	25.026	17.488	9040	43	4.108	24.772	9124	12	14.783	1.755	9196	13	6.509	6.306	9268	14	4.206	11.502
8969	10	7.460	18.372	9041	8	7.015	24.764	9125	10	15.736	1.484	9197	25	6.544	6.984	9269	17	7.434	11.144
8970*	45	9.804	18.551	9042	11	11.276	24.322	9126	10	19.433	1.565	9198	25	7.150	6.687	9270*	61	8.288	11.970
8971	24	10.655	18.504	9043	39	11.426	24.436	9127	8	20.143	1.397	9199	9	7.460	6.445	9271	15	9.944	11.688
8972	9	11.192	18.794	9044	12	13.585	24.146	9128	12	20.644	1.884	9200	9	12.348	6.075	9272	10	10.172	11.798
8973	24	12.784	18.206	9045	15	13.891	24.090	9129	9	21.201	1.882	9201	8	12.376	6.754	9273	8	14.585	11.918
8974	22	12.834	18.326	9046*	47	14.685	24.097	9130	10	23.200	1.952	9202	9	12.578	6.384	9274	20	17.066	11.685
8975	12	13.241	18.924	9047	31	17.394	24.055	9131	9	1.023	2.100	9203	20	13.536	6.570	9275	16	17.987	11.326
8976	32	18.415	18.659	9048	11	19.052	24.982	9132	20	1.028	2.549	9204	13	16.067	6.929	9276	12	18.646	11.043
8977	32	19.924	18.534	9049	11	20.254	24.400	9133	14	3.436	2.132	9205	13	16.892	6.451	9277	10	20.418	11.704
8978	9	21.118	18.528	9050	8	20.470	24.087	9134	10	4.616	2.027	9206	11	17.497	6.396	9278	38	20.920	11.785
8979	57	25.812	18.947	9051	22	20.500	24.695	9135	15	4.624	2.362	9207	10	19.128	6.473	9279	11	23.449	11.884
8980	14	2.766	19.396	9052	13	21.372	24.142	9136	11	6.552	2.528	9208	12	20.274	6.034	9280	20	0.918	12.225
8981	26	2.970	19.228	9053	21	21.385	24.508	9137	20	8.625	2.211	9209	8	21.075	6.592	9281	10	1.760	12.086
8982	43	3.827	19.068	9054	11	4.844	25.026	9138	26	12.774	2.417	9210	10	22.092	6.158	9282	11	3.190	12.563
8983	34	4.856	19.918	9055	41	7.068	25.050	9139	9	15.484	2.242	9211	34	23.501	6.101	9283	8	5.822	12.625
8984	28	8.610	19.498	9056	33	7.588	25.928	9140	8	17.756	2.540	9212	8	24.307	6.160	9284	15	6.534	12.676
8985	23	13.985	19.660	9057*	70	8.404	25.070	9141	10	19.750	2.119	9213	17	24.478	6.560	9285	12	7.749	12.526
8986	12	18.772	19.752	9058	30	10.893	25.182	9142	10	25.290	2.987	9214	8	25.956	6.854	9286	15	9.076	12.417
8987	12	19.801	19.504	9059	13	11.878	25.792	9143	32	3.544	3.689	9215	9	0.334	7.454	9287	10	9.144	12.855
8988	15	20.001	19.658	9060	23	13.971	25.200	9144	16	5.840	3.842	9216	8	1.594	7.966	9288	12	12.154	12.136
8989	8	4.506	20.029	9061	8	14.736	25.864	9145	13	8.714	3.624	9217	8	6.405	7.511	9289	9	13.158	12.777
8990	10	5.145	20.588	9062	28	15.708	25.800	9146	9	9.114	3.780	9218	8	8.806	7.753	9290	9	13.396	12.262
8991*	40	9.124	20.647	9063	9	22.244	25.864	9147	8	10.361	3.682	9219	20	8.965	7.193	9291	21	15.322	12.075
8992	33	9.945	20.700	9064	15	23.336	25.954	9148	10	11.316	3.740	9220	8	9.222	7.446	9292*	32	16.090	12.856
8993	8	10.788	20.131					9149	12	17.169	3.854	9221	8	11.361	7.458	9293	8	16.134	12.186
8994	20	20.812	20.366					9150	9	18.830	3.082	9222	14	11.896	7.840	9294	26	18.672	12.729
8995	8	0.962	21.955					9151	9	19.262	3.723	9223	13	18.476	7.826	9295	16	19.659	12.824
8996	12	5.408	21.874					9152	10	22.664	3.344	9224	10	20.348	7.290	9296	10	19.950	12.113
8997	42	6.904	21.320					9153	20	25.504	3.918	9225	8	23.800	7.884	9297	20	23.721	12.172
8998	11	7.911	21.240					9154	9	0.381	4.934	9226	10	24.902	7.345	9298*	62	24.666	12.662
8999	39	10.815	21.080					9155	40	0.599	4.306	9227	12	1.735	8.537	9299	22	0.564	13.229
9000	8	15.226	21.438					9156	27	3.140	4.145	9228	32	3.221	8.476	9300	13	0.634	13.915
9001	25	15.779	21.388					9157	9	3.616	4.958	9229	12	7.648	8.543	9301	8	1.397	13.515
9002	24	18.377	21.734					9158	10	6.204	4.602	9230	21	7.874	8.036	9302	10	5.245	13.375
9003	32	18.396	21.229					9159	9	6.336	4.717	9231	14	10.918	8.742	9303	12	6.255	13.144
9004*	35	21.649	21.042					9160	8	7.442	4.363	9232*	60	15.411	8.925	9304	10	10.658	13.794
9005	10	23.344	21.760					9161	28	8.553	4.034	9233	10	17.127	8.345	9305	9	13.376	13.782
9006	13	25.362	21.466					9162	9	9.157	4.215	9234	10	17.274	8.384	9306	12	15.574	13.646
9007	16	25.470	21.466					9163	12	10.768	4.992	9235	19	17.701	8.862	9307	12	16.446	13.467
9008	17	0.410	22.770					9164	12	13.036	4.612	9236	11	20.005	8.235	9308	40	22.358	13.822
9009	27	2.152	22.614					9165	10	14.710	4.274	9237	11	23.035	8.332	9309	12	23.523	13.773
9010	24	4.420	22.075					9166	8	15.616	4.390	9238	10	25.484	8.634	9310*	42	24.830	13.316
9011	27	5.695	22.764					9167	24	16.666	4.582	9239	8	3.618	9.618	9311	17	25.304	13.086
9012	34	8.440	22.700					9168	10	18.396	4.890	9240	10	6.254	9.336	9312	8	25.327	13.471
9013	36	10.485	22.968					9169	28	19.935	4.427	9241	10	7.085	9.225	9313	18	0.154	14.420
9014	24	10.850	22.524					9170	10	21.998	4.501	9242	10	9.265	9.896	9314	33	5.426	14.105
9015*	41	13.404	22.374					9171	12	23.436	4.508	9243	20	10.976	9.355	9315	9	6.172	14.660
9016	24	13.544	22.940					9172	8	23.576	4.552	9244	12	12.097	9.196	9316	9	6.416	14.308
9017	24	16.088	22																

9322	18	13.700	14.686	9394	10	25.470	18.458	9466	36	6.150	23.980	9555	9	10.642	0.800	9627	9	19.962	6.667
9323	11	16.832	14.074	9395	9	1.720	19.696	9467	10	6.294	23.670	9556	8	16.630	0.484	9628	13	20.768	6.783
9324	11	18.237	14.066	9396	8	3.406	19.351	9468	20	6.915	23.228	9557	13	18.174	0.435	9629	21	23.128	6.676
9325	9	18.856	14.857	9397*	52	5.782	19.792	9469	8	7.266	23.720	9558	10	22.100	0.694	9630	10	24.366	6.208
9326	13	20.531	14.354	9398	12	6.829	19.758	9470	9	8.906	23.339	9559	11	22.467	0.534	9631	8	2.458	7.554
9327	10	23.555	14.026	9399	12	9.797	19.753	9471	12	11.720	23.756	9560	8	22.486	0.285	9632	10	5.740	7.193
9328	12	24.028	14.440	9400	22	9.845	19.193	9472*	43	11.766	23.804	9561	15	22.738	0.224	9633*	34	6.268	7.574
9329	15	24.339	14.416	9401	10	12.582	19.834	9473	9	11.982	23.735	9562	9	10.318	1.640	9634	12	8.632	7.044
9330	12	24.435	14.226	9402	11	16.528	19.355	9474	8	14.817	23.142	9563	12	10.755	1.426	9635	8	9.516	7.300
9331	13	24.763	14.655	9403	14	16.550	19.186	9475	8	15.840	23.756	9564	11	17.131	1.535	9636	8	12.028	7.410
9332	11	2.401	15.330	9404*	38	18.867	19.605	9476	16	16.378	23.300	9565	8	6.500	2.868	9637	8	12.824	7.222
9333*	42	3.612	15.626	9405	10	19.354	19.429	9477	17	19.548	23.327	9566	10	14.683	2.787	9638	15	16.188	7.330
9334	8	5.782	15.054	9406	8	20.723	19.444	9478	26	19.670	23.152	9567	13	15.456	2.713	9639	8	17.312	7.664
9335	9	8.104	15.815	9407	15	21.300	19.671	9479	9	21.721	23.163	9568	24	17.240	2.682	9640	10	22.908	7.655
9336*	40	8.503	15.876	9408*	40	4.165	20.672	9480	8	3.204	24.326	9569*	43	17.267	2.541	9641	8	23.699	7.976
9337	10	10.441	15.320	9409	10	5.864	20.466	9481	8	3.802	24.784	9570*	28	20.902	2.761	9642*	51	24.144	7.496
9338	20	10.889	15.418	9410	40	6.008	20.185	9482	11	7.066	24.984	9571	10	23.652	2.752	9643*	50	24.296	7.520
9339	12	15.977	15.075	9411	18	6.065	20.738	9483	8	7.624	24.394	9572	8	0.181	3.577	9644	8	0.279	8.890
9340	21	16.514	15.535	9412	10	6.866	20.514	9484*	42	8.768	24.084	9573	8	2.512	3.445	9645	10	0.600	8.560
9341	9	18.306	15.056	9413	10	10.224	20.430	9485	19	11.773	24.898	9574	10	2.807	3.195	9646	8	3.055	8.837
9342	9	18.564	15.692	9414	8	12.580	20.550	9486	40	11.992	24.148	9575	16	3.772	3.582	9647	12	4.936	8.768
9343	20	21.585	15.589	9415	14	12.918	20.480	9487	20	12.421	24.654	9576	32	5.726	3.707	9648	14	6.140	8.242
9344	11	22.034	15.845	9416	13	14.084	20.145	9488	29	12.652	24.266	9577	11	5.944	3.722	9649	9	8.122	8.406
9345	10	22.875	15.292	9417	20	15.596	20.366	9489	20	12.914	24.244	9578	10	7.223	3.624	9650	13	8.372	8.584
9346	8	23.676	15.862	9418	23	16.544	20.961	9490	9	13.112	24.456	9579	11	10.330	3.874	9651	9	13.322	8.583
9347	18	1.682	16.640	9419	15	16.800	20.934	9491	25	16.114	24.606	9580	9	18.092	3.622	9652	10	13.550	8.586
9348	10	2.364	16.074	9420	11	16.825	20.494	9492	8	17.738	24.196	9581	16	22.094	3.543	9653	13	15.588	8.338
9349	8	3.324	16.244	9421	8	18.625	20.486	9493	11	17.794	24.273	9582	14	25.108	3.123	9654	8	17.397	8.564
9350	11	4.566	16.179	9422	9	20.879	20.344	9494	8	18.617	24.394	9583	8	0.966	4.732	9655	16	20.173	8.732
9351	9	4.934	16.314	9423	28	22.266	20.014	9495	9	22.484	24.084	9584	17	1.329	4.394	9656	9	24.688	8.072
9352	8	8.736	16.224	9424	10	23.218	20.755	9496*	51	24.408	24.196	9585	9	2.932	4.662	9657	10	1.362	9.666
9353	40	8.898	16.006	9425	8	23.630	20.460	9497	9	25.274	24.714	9586	14	3.028	4.122	9658	8	1.506	9.816
9354	8	9.690	16.565	9426	18	25.306	20.116	9498	12	25.530	24.916	9587	9	3.730	4.532	9659	12	1.700	9.346
9355	24	10.451	16.572	9427	8	0.296	21.256	9499	10	0.206	25.876	9588	12	4.200	4.490	9660	9	6.706	9.906
9356	10	11.153	16.116	9428	10	1.256	21.755	9500	12	1.302	25.954	9589	13	8.628	4.549	9661	15	7.656	9.636
9357	18	14.080	16.486	9429	13	3.274	21.437	9501	11	4.124	25.892	9590	32	8.952	4.700	9662	9	9.078	9.600
9358	12	17.164	16.648	9430	17	3.378	21.437	9502	9	4.577	25.209	9591	8	9.884	4.147	9663	8	9.804	9.852
9359	8	19.016	16.635	9431	11	3.936	21.368	9503	10	6.165	25.766	9592	10	11.188	4.858	9664	8	12.592	9.206
9360	15	20.409	16.888	9432	16	4.980	21.433	9504	24	8.404	25.636	9593	8	12.828	4.413	9665	10	13.940	9.326
9361	9	21.236	16.514	9433	9	6.852	21.696	9505	10	9.139	25.424	9594*	36	15.302	4.439	9666	9	15.946	9.660
9362*	45	21.636	16.402	9434	21	7.320	21.271	9506	40	9.412	25.553	9595	9	16.690	4.092	9667	27	20.094	9.097
9363	10	22.310	16.542	9435	15	8.914	21.514	9507	13	9.702	25.924	9596	8	17.664	4.404	9668	8	20.315	9.486
9364	8	23.676	16.366	9436*	46	11.265	21.857	9508	11	12.035	25.134	9597	8	17.750	4.392	9669	25	21.396	9.841
9365	14	2.885	17.466	9437	20	14.629	21.146	9509	41	13.465	25.584	9598	30	18.236	4.966	9670	8	25.694	9.000
9366	8	3.022	17.362	9438	11	16.350	21.546	9510	10	18.176	25.672	9599	20	25.134	4.265	9671	10	1.792	10.372
9367	9	4.314	17.918	9439	32	18.318	21.013	9511	12	18.637	25.638	9600	11	0.054	5.612	9672	12	1.928	10.924
9368*	45	5.247	17.594	9440	13	19.377	21.606	9512	10	19.388	25.471	9601	9	2.215	5.872	9673*	34	2.700	10.312
9369	12	5.474	17.815	9441	10	20.884	21.196	9513	11	22.156	25.621	9602	10	3.241	5.002	9674	11	3.274	10.042
9370	15	5.920	17.766	9442	8	22.462	21.152	9514	11	22.948	25.546	9603	8	3.746	5.509	9675	9	6.558	10.384
9371	13	6.924	17.183	9443	12	23.488	21.844					9604	11	5.518	5.728	9676	10	8.088	10.008
9372	10	7.444	17.093	9444	10	25.216	21.445					9605	21	7.162	5.730	9677	8	11.279	10.518
9373	14	8.896	17.607	9445	24	25.688	21.062					9606	11	7.463	5.359	9678	8	18.819	10.202
9374	8	10.071	17.054	9446	13	1.194	22.894					9607	9	8.580	5.441	9679	24	19.706	10.678
9375	8	11.128	17.234	9447	10	5.275	22.584					9608*	62	9.179	5.856	9680	13	21.180	10.122
9376	13	12.268	17.830	9448	22	6.618	22.464					9609*	50	10.746	5.726	9681	23	22.732	10.658
9377	12	17.075	17.662	9449	8	7.196	22.680					9610*	46	11.189	5.096	9682	8	4.994	11.905
9378	27	21.800	17.144	9450	8	8.096	22.468					9611	9	11.948	5.007	9683	9	5.557	11.892
9379	9	1.594	18.450	9451	30	12.036	22.356					9612	10	14.791	5.322	9684	9	6.403	11.008
9380*	45	3.686	18.914	9452	9	12.266	22.198					9613	13	18.242	5.111	9685	20	7.298	11.044
9381	14	7.849	18.480	9453	9	12.909	22.758					9614	11	22.103	5.466	9686	9	9.239	11.612
9382	18	7.996	18.401	9454	10	14.572	22.196					9615	12	22.662	5.191	9687	8	9.260	11.931
9383	11	10.119	18.088	9455	16	17.326	22.779					9616	9	23.102	5.690	9688	16	9.936	11.567
9384	21	12.708	18.396	9456	8	19.584	22.500					9617*	38	23.106	5.262	9689	12	11.708	11.158
9385	13	14.221	18.962	9457	18	19.665	22.940					9618	13	23.878	5.172	9690	21	14.398	11.570
9386	8	14.427	18.296	9458	10	21.419	22.576					9619	15	25.476	5.772	9691	8	16.936	11.874
9387*	40	15.453	18.397	9459	32	24.554	22.564					9620	25	1.046	6.328	9692	21	18.460	11.990
9388	8	16.568	18.714	9460	9	24.646	22.925	</											

9699	22	10.874	12.120	9771	10	11.758	17.516	9843	19	7.474	23.450	9920	11	9.032	1.269	9992	8	20.086	5.015
9700	22	12.634	12.686	9772	13	12.109	17.032	9844	25	8.658	23.540	9921	16	12.306	1.374	9993	23	20.400	5.098
9701*	40	14.408	12.936	9773	12	13.254	17.830	9845	24	9.156	23.788	9922	41	12.968	1.508	9994	25	20.990	5.442
9702	11	14.652	12.296	9774	9	20.208	17.082	9846	12	12.846	23.700	9923	19	13.064	1.123	9995	25	22.158	5.810
9703	10	14.824	12.046	9775	8	22.425	17.506	9847	9	14.206	23.770	9924	39	16.066	1.042	9996	14	22.446	5.674
9704	10	15.118	12.319	9776	15	22.619	17.830	9848	11	20.836	23.468	9925	30	18.047	1.988	9997	39	22.832	5.340
9705	12	17.561	12.836	9777	9	22.889	17.350	9849	10	23.142	23.843	9926	10	18.594	1.390	9998	34	22.881	5.449
9706	17	17.966	12.381	9778	12	22.972	17.810	9850*	41	2.128	24.408	9927	31	19.476	1.412	9999	40	23.734	5.511
9707	9	18.392	12.266	9779	9	3.142	18.664	9851	18	5.242	24.300	9928*	46	20.108	1.518	10000	10	23.794	5.856
9708	11	19.874	12.130	9780	9	5.386	18.746	9852	22	8.940	24.680	9929	10	23.917	1.690	10001	39	0.888	6.635
9709	12	20.305	12.126	9781	25	5.416	18.192	9853	20	11.314	24.069	9930	18	1.383	2.710	10002	24	2.126	6.154
9710	8	20.506	12.694	9782	11	8.884	18.443	9854	8	12.378	24.122	9931	13	3.567	2.468	10003	37	7.026	6.836
9711	10	1.142	13.997	9783	10	9.290	18.742	9855	38	13.550	24.614	9932	16	3.902	2.312	10004	20	12.086	6.850
9712*	41	2.440	13.530	9784	8	13.534	18.483	9856	8	14.464	24.084	9933	16	5.379	2.848	10005	34	12.536	6.490
9713	14	2.917	13.294	9785	14	14.074	18.692	9857	14	16.237	24.828	9934	23	5.685	2.318	10006	8	15.854	6.588
9714	8	8.358	13.402	9786	10	16.324	18.177	9858	20	16.611	24.350	9935	15	11.757	2.739	10007	39	16.700	6.140
9715	10	10.698	13.560	9787	10	16.910	18.998	9859	14	18.674	24.380	9936	28	12.207	2.406	10008	28	16.714	6.109
9716	15	11.222	13.772	9788	17	18.316	18.894	9860	8	0.687	25.776	9937	9	13.578	2.364	10009*	52	17.577	6.230
9717	11	12.530	13.045	9789	17	18.616	18.800	9861	10	3.266	25.119	9938	39	13.760	2.864	10010	43	19.966	6.350
9718	11	13.014	13.330	9790	10	19.304	18.128	9862	18	7.371	25.643	9939	26	14.256	2.818	10011	30	23.478	6.321
9719	10	14.552	13.474	9791	9	20.067	18.100	9863	8	9.098	25.888	9940	21	16.748	2.558	10012	45	25.076	6.006
9720	28	14.794	13.584	9792	14	20.700	18.422	9864	10	9.865	25.641	9941	23	17.102	2.119	10013	43	25.456	6.604
9721	13	17.229	13.104	9793	10	20.894	18.368	9865	8	13.252	25.500	9942	25	17.326	2.408	10014	21	0.681	7.616
9722	8	17.650	13.219	9794	34	22.414	18.920	9866	8	15.088	25.272	9943	30	17.586	2.909	10015	16	1.472	7.928
9723	12	18.182	13.370	9795	16	23.640	18.396	9867	8	15.322	25.038	9944	11	19.948	2.811	10016*	60	1.904	7.447
9724	9	25.261	13.332	9796	30	25.038	18.610	9868	9	20.662	25.217	9945*	44	22.422	2.911	10017*	61	2.058	7.471
9725	10	1.178	14.250	9797	10	2.078	19.019	9869	33	22.145	25.756	9946	11	22.461	2.449	10018	21	4.972	7.073
9726	8	1.652	14.660	9798	8	3.528	19.178	9870	37	22.556	25.938	9947	12	23.569	2.232	10019	31	8.626	7.457
9727	12	1.967	14.632	9799	12	5.217	19.810	9871	27	24.548	25.560	9948	17	24.437	2.186	10020	12	12.636	7.818
9728	9	2.057	14.442	9800	20	6.033	19.468					9949	32	2.842	3.064	10021	8	14.226	7.122
9729	11	2.392	14.868	9801	17	16.380	19.741					9950*	74	4.767	3.346	10022	12	14.358	7.724
9730	8	5.184	14.234	9802	8	18.210	19.228					9951	14	5.448	3.419	10023*	42	14.774	7.236
9731	9	6.212	14.250	9803	13	18.888	19.449					9952	16	6.855	3.305	10024	24	16.362	7.804
9732	11	6.296	14.832	9804	18	18.985	19.483					9953	28	9.717	3.498	10025	24	16.586	7.296
9733	8	10.247	14.535	9805	8	19.483	19.088					9954*	112	13.880	3.634	10026	33	17.288	7.879
9734*	30	10.523	14.245	9806	10	19.736	19.137					9955*	44	14.776	3.830	10027	41	21.286	7.455
9735	9	12.849	14.054	9807	9	20.717	19.120					9956	29	16.252	3.034	10028	35	22.346	7.257
9736	9	14.371	14.378	9808	12	2.992	20.326					9957	36	20.216	3.250	10029	44	22.562	7.436
9737	24	16.150	14.114	9809	8	8.522	20.292					9958*	43	20.727	3.230	10030	29	22.924	7.448
9738	8	18.132	14.614	9810	24	9.843	20.066					9959	25	20.813	3.156	10031	8	23.212	7.484
9739	10	22.810	14.019	9811	26	11.604	20.601					9960	8	24.334	3.665	10032	41	24.944	7.804
9740	11	24.812	14.360	9812	13	14.153	20.285					9961	41	2.874	4.201	10033	12	2.459	8.016
9741	8	5.398	15.838	9813	26	17.756	20.428					9962	20	4.294	4.977	10034	28	3.479	8.936
9742*	44	13.158	15.434	9814	8	18.939	20.202					9963	44	7.474	4.664	10035	10	6.278	8.452
9743	18	13.204	15.667	9815	24	19.665	20.235					9964	34	7.642	4.366	10036	43	7.200	8.960
9744	15	14.378	15.417	9816	22	19.944	20.790					9965	40	7.876	4.617	10037	8	7.368	8.174
9745	8	15.196	15.193	9817	10	20.548	20.970					9966	19	8.554	4.305	10038	9	9.141	8.088
9746	12	16.753	15.901	9818	10	24.786	20.171					9967	31	10.066	4.890	10039	38	11.104	8.468
9747	29	18.488	15.809	9819	17	3.382	21.265					9968	22	10.815	4.302	10040	22	11.196	8.486
9748	8	19.716	15.761	9820	23	3.952	21.440					9969	39	11.459	4.031	10041	11	14.866	8.741
9749	20	20.098	15.327	9821	9	7.464	21.950					9970	37	13.168	4.240	10042	21	15.036	8.748
9750	8	21.197	15.211	9822	26	9.840	21.774					9971	18	14.118	4.256	10043	23	16.370	8.562
9751	29	22.382	15.624	9823	31	11.724	21.057					9972	9	22.035	4.645	10044	24	17.167	8.474
9752	24	4.908	16.412	9824	11	13.153	21.852					9973	30	0.412	5.160	10045	19	17.954	8.501
9753	10	6.908	16.400	9825*	61	18.873	21.711					9974*	49	0.849	5.222	10046	17	18.800	8.990
9754	20	7.252	16.378	9826	8	22.448	21.748					9975	16	0.852	5.649	10047*	60	19.412	8.613
9755	10	8.198	16.100	9827	11	1.194	22.067					9976	34	1.626	5.124	10048	9	0.922	9.866
9756	12	13.337	16.306	9828	26	2.260	22.776					9977	12	3.045	5.144	10049*	47	4.105	9.060
9757	8	14.539	16.370	9829	10	2.993	22.410					9978	40	3.234	5.712	10050	36	6.872	9.063
9758	11	14.918	16.244	9830	26	7.086	22.329					9979	11	6.031	5.928	10051	21	10.050	9.102
9759*	35	22.316	16.962	9831	26	7.196	22.504					9980	18	8.026	5.378	10052	8	11.847	9.164
9760	8	23.069	16.514	9832	10	7.513	22.898					9981	12	8.940	5.220	10053	10	11.927	9.199
9761	14	23.206	16.153	9833	12	10.042	22.342					9982	19	10.758	5.740	10054	25	12.038	9.900
9762	21	23.438	16.757	9834*	31	10.896	22.296					9983	10	12.914	5.086	10055	18	13.522	9.816
9763	17	23.648	16.849	9835	9	15.769	22.388					9984	12	13.176	5.832	10056	28	20.423	9.018
9764	8	23.873	16.450	9836	9	18.797	22.670					9985	8	13.838	5.167	10057	9	21.047	9.222
9765	10	24.131	16.697	9837	11	19.365	22.293					9986	29	14.216	5.406	10058*	47	23.600	9.928
9766	12	25.716	16.707	9838	9	20.756	22.884					9987	36	16.634	5.790	10059	41	25.619	9.070
9767	8	4.115	17.772	9839	8	21.601													

10064	8	13.043	10.576	10136	42	21.778	14.336	10208	34	22.066	18.370	10280	40	16.870	23.712	10365	10	5.483	1.444
10065	26	13.714	10.794	10137	43	21.998	14.342	10209	15	22.358	18.160	10281	37	19.021	23.814	10366	18	6.089	1.684
10066	12	14.032	10.664	10138	43	0.222	15.590	10210	10	23.234	18.086	10282	8	4.498	24.882	10367	34	8.194	1.216
10067	35	14.446	10.174	10139	8	3.922	15.402	10211	8	23.358	18.802	10283	35	5.248	24.934	10368	13	8.589	1.820
10068	30	14.514	10.716	10140*	43	4.061	15.702	10212	11	1.882	19.212	10284	39	8.508	24.592	10369	16	11.692	1.044
10069	26	15.038	10.867	10141	12	5.334	15.214	10213	34	3.923	19.784	10285	19	10.285	24.192	10370*	120	12.993	1.409
10070	17	15.786	10.906	10142	15	6.026	15.694	10214	40	7.358	19.124	10286	20	11.236	24.794	10371	28	14.684	1.752
10071	45	18.894	10.512	10143	9	6.966	15.578	10215	15	7.612	19.120	10287	20	12.640	24.438	10372	14	15.927	1.360
10072	22	19.380	10.096	10144	16	8.695	15.462	10216	17	9.330	19.598	10288	22	13.052	24.438	10373	29	18.749	1.529
10073	8	20.245	10.218	10145	18	9.015	15.146	10217	14	9.866	19.869	10289	12	13.244	24.596	10374	54	0.116	2.909
10074*	45	21.201	10.634	10146	8	9.073	15.314	10218	13	9.952	19.756	10290	40	16.568	24.328	10375	12	0.158	2.443
10075	27	21.640	10.454	10147*	45	16.529	15.276	10219	40	12.866	19.686	10291	23	16.766	24.061	10376	17	1.262	2.221
10076	14	4.526	11.378	10148*	112	19.584	15.148	10220	20	13.248	19.126	10292	9	16.823	24.221	10377	22	2.132	2.163
10077	13	7.554	11.406	10149	34	23.655	15.580	10221	40	13.834	19.152	10293	40	18.158	24.810	10378	17	3.692	2.378
10078	25	8.596	11.684	10150	20	23.940	15.354	10222	22	19.617	19.500	10294	11	18.924	24.510	10379	14	4.450	2.630
10079	8	10.764	11.488	10151	10	24.786	15.172	10223*	115	20.976	19.685	10295	8	19.471	24.174	10380	16	4.512	2.996
10080*	84	15.553	11.016	10152	46	0.164	16.928	10224	112	21.014	19.563	10296	10	21.534	24.288	10381	34	5.080	2.821
10081	24	16.477	11.084	10153	15	0.920	16.474	10225*	44	21.164	19.170	10297	37	23.705	24.306	10382	16	8.248	2.260
10082	34	16.727	11.760	10154	32	1.050	16.114	10226	38	22.102	19.435	10298	51	0.076	25.729	10383	17	8.698	2.774
10083	13	18.808	11.551	10155	41	1.290	16.712	10227	18	22.834	19.440	10299	53	0.491	25.905	10384	17	10.151	2.039
10084	32	19.215	11.154	10156	33	1.502	16.803	10228	9	24.126	19.698	10300	45	2.484	25.512	10385	18	12.303	2.742
10085	25	22.174	11.608	10157	14	1.724	16.405	10229	19	24.824	19.364	10301	8	2.482	25.818	10386	26	15.050	2.301
10086	12	3.465	12.200	10158	16	1.984	16.647	10230	29	2.670	20.116	10302	32	4.402	25.365	10387	13	19.594	2.824
10087	11	4.834	12.218	10159	26	3.569	16.642	10231*	62	4.703	20.334	10303	10	4.651	25.246	10388	14	23.068	2.354
10088	11	4.873	12.746	10160	27	3.994	16.570	10232	10	7.600	20.436	10304	9	4.702	25.552	10389	12	23.681	2.488
10089	10	6.857	12.686	10161	41	5.456	16.113	10233	10	8.406	20.739	10305	20	10.634	25.694	10390	10	1.038	3.866
10090	18	9.424	12.294	10162	11	6.425	16.770	10234	12	8.776	20.026	10306	10	10.963	25.694	10391	16	2.040	3.677
10091	19	11.147	12.310	10163	10	6.921	16.751	10235	25	10.912	20.400	10307	40	12.818	25.055	10392	25	6.318	3.360
10092	8	12.186	12.424	10164	11	11.520	16.382	10236	15	11.492	20.108	10308	11	15.495	25.844	10393	20	7.823	3.151
10093	14	13.358	12.262	10165	15	12.038	16.374	10237	9	12.638	20.714	10309	8	19.200	25.466	10394	36	8.038	3.322
10094	13	13.721	12.801	10166	37	15.036	16.111	10238	14	16.709	20.586	10310	11	19.906	25.414	10395	22	8.608	3.456
10095	29	15.536	12.374	10167	11	15.613	16.765	10239*	46	17.444	20.798	10311	8	21.814	25.581	10396	16	8.700	3.025
10096	13	15.588	12.848	10168	14	16.082	16.720	10240	26	17.942	20.456	10312	8	23.084	25.598	10397*	38	8.780	3.271
10097*	41	16.401	12.055	10169	28	18.926	16.056	10241	17	17.974	20.416	10313	43	25.712	25.042	10398	18	8.964	3.241
10098	38	18.098	12.915	10170	38	19.700	16.626	10242	8	22.105	20.485					10399*	52	14.005	3.042
10099	29	21.306	12.091	10171	8	21.266	16.239	10243	30	24.774	20.760					10400	23	15.672	3.262
10100	31	22.522	12.100	10172	9	0.288	17.472	10244	12	0.346	21.711					10401	40	20.392	3.793
10101	37	22.792	12.595	10173	32	0.484	17.794	10245	14	4.868	21.487					10402	36	21.225	3.648
10102	9	25.372	12.546	10174	13	0.746	17.314	10246	11	6.964	21.078					10403	18	23.559	3.186
10103	10	0.638	13.983	10175	16	0.834	17.774	10247	32	7.712	21.029					10404	54	24.564	3.405
10104	26	3.082	13.274	10176	14	3.984	17.730	10248	33	8.235	21.786					10405	14	2.055	4.526
10105*	42	3.920	13.384	10177	13	4.707	17.521	10249	30	12.878	21.256					10406	14	2.199	4.124
10106	9	4.444	13.872	10178	12	6.806	17.252	10250	28	14.286	21.900					10407	21	4.981	4.032
10107	17	4.504	13.884	10179	20	7.403	17.234	10251*	55	16.382	21.383					10408	13	5.014	4.956
10108	18	5.152	13.500	10180	18	8.150	17.700	10252	12	16.726	21.975					10409	30	6.926	4.031
10109	8	6.536	13.950	10181	20	8.633	17.354	10253	11	17.456	21.549					10410*	56	7.966	4.976
10110	10	8.312	13.102	10182	17	8.950	17.252	10254	9	22.712	21.144					10411*	76	9.282	4.366
10111	10	9.242	13.388	10183	10	10.114	17.733	10255	23	0.776	22.760					10412	14	9.705	4.516
10112	8	11.322	13.158	10184	23	10.288	17.076	10256*	49	2.850	22.088					10413	34	9.714	4.022
10113	24	13.134	13.996	10185	10	10.926	17.617	10257	35	5.262	22.454					10414	36	9.728	4.009
10114	18	13.174	13.187	10186	41	10.968	17.558	10258	12	6.624	22.431					10415	34	9.762	4.284
10115	8	13.824	13.424	10187	13	12.023	17.655	10259	11	8.650	22.300					10416	13	11.238	4.156
10116	37	16.264	13.852	10188	11	13.869	17.756	10260	31	8.656	22.688					10417	10	13.199	4.028
10117	32	19.636	13.954	10189	24	15.392	17.914	10261	16	11.759	22.221					10418	34	15.052	4.342
10118	26	19.810	13.042	10190*	42	17.400	17.675	10262	23	14.554	22.178					10419	20	16.224	4.504
10119	28	20.706	13.945	10191	8	19.267	17.612	10263*	44	18.431	22.238					10420	35	19.634	4.561
10120	41	20.784	13.516	10192	32	20.727	17.771	10264	32	18.727	22.942					10421	37	20.128	4.852
10121	40	21.412	13.690	10193	44	23.810	17.842	10265	18	22.030	22.524					10422	17	21.035	4.774
10122	18	22.114	13.260	10194	11	25.168	17.852	10266	12	22.174	22.866					10423	37	22.680	4.256
10123	8	22.208	13.456	10195	45	0.283	18.888	10267	35	25.721	22.369					10424	16	22.808	4.714
10124	25	22.549	13.236	10196	33	1.504	18.350	10268	31	1.064	23.802					10425	12	23.992	4.804
10125	33	23.434	13.636	10197	43	2.910	18.556	10269	9	3.809	23.122					10426	34	24.848	4.211
10126	32	25.852	13.496	10198	29	4.830	18.769	10270	29	4.782	23.954					10427	34	25.654	4.849
10127	10	0.614	14.690	10199	12	5.384	18.058	10271	41	6.844	23.536					10428	29	25.732	4.791
10128	15	2.414	14.248	10200*	52	7.619	18.268	10272	13	9.149	23.892					10429	21	0.166	5.674
10129	28	2.644	14.304	10201	36	8.888	18.626	10273	16	9.461	23.961					10430	37	0.549	5.334</

10437	9	5.076	5.782	10509	15	7.586	9.604	10581	16	6.470	13.966	10653	13	8.534	17.232	10725	28	12.840	21.767
10438	24	8.498	5.426	10510	17	8.165	9.214	10582	37	6.497	13.373	10654	9	12.474	17.826	10726	17	13.869	21.562
10439	41	11.066	5.962	10511	10	9.264	9.013	10583	11	7.351	13.568	10655	20	14.788	17.798	10727	14	14.242	21.331
10440	36	13.100	5.536	10512	36	11.466	9.174	10584	36	8.792	13.933	10656	17	15.181	17.393	10728*	56	14.965	21.806
10441	19	15.179	5.181	10513	19	12.520	9.230	10585	16	9.582	13.754	10657	32	15.224	17.364	10729	8	15.672	21.842
10442	10	17.036	5.794	10514	13	17.395	9.440	10586	12	11.536	13.837	10658	14	15.248	17.984	10730	36	15.994	21.534
10443	14	18.480	5.357	10515	12	17.736	9.326	10587	11	13.216	13.260	10659	12	15.736	17.476	10731	50	16.862	21.102
10444	12	21.907	5.784	10516	23	18.478	9.002	10588	16	17.108	13.342	10660	14	16.830	17.726	10732	22	18.811	21.633
10445	22	22.445	5.190	10517	34	18.566	9.190	10589	13	19.210	13.816	10661	10	18.954	17.825	10733*	54	23.325	21.025
10446	25	23.112	5.224	10518	19	20.376	9.725	10590	14	20.633	13.380	10662	10	19.079	17.778	10734	11	23.476	21.304
10447	23	24.248	5.018	10519	44	20.384	9.024	10591	11	21.580	13.476	10663	14	20.046	17.344	10735	19	0.054	22.872
10448	37	24.588	5.359	10520	21	21.915	9.355	10592*	62	22.796	13.364	10664	19	20.356	17.696	10736	34	3.596	22.336
10449	8	24.973	5.484	10521	13	5.022	10.525	10593	36	23.848	13.966	10665	36	22.878	17.436	10737	36	5.233	22.144
10450	25	1.206	6.308	10522	19	5.611	10.814	10594*	44	7.271	14.850	10666	34	23.044	17.713	10738	16	6.946	22.084
10451	9	2.392	6.110	10523	10	11.397	10.992	10595	18	7.556	14.784	10667	9	23.725	17.500	10739	16	9.320	22.437
10452	40	3.184	6.576	10524	27	11.966	10.956	10596	8	10.330	14.180	10668	34	24.218	17.062	10740	28	9.508	22.654
10453	23	5.322	6.436	10525	12	12.806	10.419	10597	10	10.540	14.946	10669	21	0.193	18.159	10741	16	11.006	22.395
10454	22	6.560	6.453	10526	14	13.370	10.200	10598	14	12.274	14.560	10670	13	0.392	18.904	10742	28	13.404	22.154
10455	9	7.332	6.756	10527	24	13.570	10.086	10599	16	12.346	14.502	10671	16	1.068	18.079	10743	32	14.178	22.427
10456	11	10.644	6.129	10528	16	16.036	10.435	10600*	36	12.533	14.360	10672	14	4.664	18.436	10744	18	15.659	22.252
10457	31	14.535	6.940	10529	15	17.750	10.131	10601	16	13.316	14.770	10673	16	8.427	18.172	10745	14	16.106	22.930
10458	16	14.858	6.104	10530	11	17.790	10.036	10602	33	14.171	14.370	10674	11	8.612	18.977	10746	20	17.096	22.011
10459	15	15.776	6.564	10531	28	19.060	10.438	10603	11	14.670	14.797	10675	36	11.046	18.235	10747	16	19.626	22.785
10460	12	16.960	6.886	10532	15	19.718	10.842	10604	18	15.508	14.896	10676	10	11.618	18.689	10748	12	19.974	22.891
10461	24	17.052	6.499	10533	12	24.850	10.252	10605	15	16.846	14.554	10677	13	13.982	18.324	10749	37	20.360	22.364
10462	34	21.132	6.292	10534	30	25.606	10.006	10606	13	19.499	14.251	10678	36	17.501	18.373	10750	16	20.806	22.196
10463	36	22.278	6.478	10535	19	4.304	11.928	10607*	41	21.611	14.898	10679	11	17.849	18.554	10751	11	22.548	22.226
10464	12	22.378	6.714	10536	17	4.384	11.842	10608	37	22.607	14.866	10680	17	18.055	18.534	10752	19	25.064	22.054
10465	17	24.830	6.093	10537	27	6.701	11.914	10609	21	24.298	14.595	10681	14	18.950	18.876	10753	20	25.556	22.470
10466	74	25.672	6.600	10538	16	8.490	11.764	10610	34	1.467	15.566	10682	16	19.725	18.706	10754*	37	6.150	23.296
10467	34	0.082	7.254	10539	19	9.366	11.603	10611	9	1.536	15.806	10683	11	20.601	18.755	10755	16	9.008	23.682
10468	43	0.295	7.434	10540	18	11.568	11.382	10612	19	1.750	15.341	10684	16	21.267	18.538	10756	24	9.598	23.650
10469	19	0.664	7.442	10541	29	12.800	11.300	10613	15	2.595	15.147	10685	11	22.125	18.906	10757	10	9.606	23.816
10470	16	0.948	7.474	10542	37	12.806	11.274	10614	21	4.814	15.034	10686	23	23.694	18.530	10758	36	10.053	23.193
10471	36	2.680	7.780	10543	30	13.534	11.784	10615	11	5.254	15.306	10687	17	24.268	18.723	10759	11	11.103	23.168
10472	22	6.069	7.768	10544	20	13.568	11.813	10616	36	7.146	15.475	10688	36	24.955	18.684	10760	18	13.024	23.286
10473	12	6.245	7.533	10545	12	14.048	11.576	10617	9	8.241	15.506	10689	18	0.681	19.434	10761	36	13.041	23.330
10474	11	6.997	7.271	10546	15	16.754	11.955	10618	26	8.524	15.273	10690	20	1.975	19.684	10762	19	13.160	23.318
10475	13	7.158	7.896	10547	31	21.729	11.405	10619	11	8.991	15.493	10691	21	2.670	19.339	10763	16	14.264	23.398
10476	16	7.686	7.146	10548	41	24.626	11.854	10620	16	9.621	15.452	10692	26	6.122	19.166	10764	21	14.675	23.784
10477	22	7.800	7.823	10549	12	0.110	12.421	10621	42	10.328	15.676	10693	32	12.342	19.083	10765	11	14.722	23.222
10478	14	8.071	7.689	10550	28	0.301	12.095	10622	37	16.088	15.719	10694	11	13.760	19.426	10766	17	14.793	23.067
10479	16	9.232	7.698	10551	34	0.572	12.592	10623	20	16.728	15.150	10695	20	16.401	19.637	10767	19	15.559	23.530
10480	17	10.296	7.190	10552	16	3.158	12.518	10624	14	18.574	15.604	10696	17	18.976	19.050	10768	19	16.874	23.561
10481	10	11.156	7.517	10553	21	3.896	12.490	10625	11	19.572	15.280	10697	36	20.118	19.046	10769	12	17.169	23.029
10482	13	11.441	7.200	10554	14	5.309	12.172	10626	17	19.951	15.363	10698	18	24.088	19.254	10770	12	17.876	23.183
10483	17	12.948	7.300	10555	10	9.271	12.410	10627	14	20.992	15.059	10699	16	24.320	19.648	10771	13	17.923	23.408
10484	16	13.699	7.792	10556	16	11.204	12.684	10628	30	24.876	15.100	10700	20	25.494	19.706	10772	10	18.313	23.842
10485	32	13.826	7.826	10557	12	12.118	12.370	10629	14	1.692	16.717	10701	34	2.632	20.736	10773	10	19.307	23.952
10486	36	15.796	7.842	10558	17	12.146	12.464	10630	9	4.920	16.830	10702	15	4.171	20.014	10774	21	21.910	23.164
10487	15	17.036	7.575	10559	13	12.466	12.544	10631	21	5.084	16.888	10703	24	4.618	20.530	10775	16	23.474	23.287
10488	23	17.738	7.390	10560	11	12.622	12.070	10632	22	6.672	16.326	10704	11	7.938	20.306	10776	17	23.829	23.176
10489	11	17.768	7.444	10561	12	13.977	12.464	10633	16	7.418	16.592	10705	32	8.021	20.240	10777	36	24.159	23.688
10490	13	17.829	7.588	10562	21	14.946	12.425	10634	16	7.643	16.434	10706	17	8.841	20.732	10778	32	24.774	23.630
10491	14	18.979	7.196	10563	18	15.752	12.964	10635	18	9.656	16.418	10707	14	9.257	20.971	10779	16	1.256	24.905
10492	36	20.046	7.216	10564	24	16.862	12.465	10636	18	10.724	16.106	10708	14	10.258	20.856	10780	37	1.598	24.294
10493	19	21.172	7.306	10565	34	17.282	12.104	10637	20	11.531	16.666	10709	37	11.400	20.022	10781	16	3.383	24.472
10494	14	23.706	7.369	10566	17	17.526	12.757	10638	11	13.171	16.522	10710	26	13.626	20.646	10782	27	8.498	24.776
10495*	78	5.963	8.856	10567	24	18.081	12.570	10639	17	15.364	16.394	10711	10	14.044	20.958	10783	23	8.519	24.985
10496	12	6.785	8.919	10568	16	18.466	12.844	10640	14	17.299	16.410	10712	9	14.324	20.921	10784	23	10.403	24.207
10497	20	8.040	8.201	10569	10	19.844	12.080	10641	25	19.707	16.264	10713	12	15.228	20.477	10785	14	11.079	24.588
10498	11	9.643	8.520	10570	17	20.955	12.910	10642	13	20.624	16.182	10714	22	16.834	20.656	10786	12	11.654	24.174
10499	36																		

10797	16	5.310	25.753	10879	8	14.828	3.598	10951	12	3.034	10.334	11023	12	18.548	16.296	11095	8	20.961	22.400
10798	12	5.367	25.213	10880*	31	17.945	3.470	10952	8	9.092	10.693	11024	8	21.255	16.725	11096	19	21.029	22.024
10799	26	6.569	25.648	10881	8	18.894	3.848	10953*	33	11.554	10.772	11025	13	0.379	17.852	11097	8	23.612	22.900
10800	34	7.200	25.836	10882	9	19.178	3.986	10954	11	12.285	10.770	11026	12	1.725	17.458	11098	13	23.846	22.038
10801	16	8.351	25.175	10883	11	19.336	3.926	10955	8	12.360	10.044	11027	15	8.680	17.258	11099	8	3.737	23.158
10802	36	8.666	25.634	10884	16	21.194	3.706	10956	10	14.820	10.086	11028	9	10.550	17.832	11100	10	6.340	23.684
10803	20	11.731	25.004	10885	24	25.644	3.620	10957*	34	16.220	10.930	11029	8	12.238	17.066	11101	12	6.474	23.586
10804	34	13.795	25.823	10886	17	0.012	4.573	10958	9	19.194	10.394	11030	8	12.475	17.545	11102	12	7.706	23.228
10805	13	14.959	25.919	10887	13	2.196	4.500	10959	16	4.024	11.872	11031*	47	17.895	17.434	11103	8	8.386	23.922
10806	41	15.652	25.684	10888	9	3.922	4.763	10960	12	7.054	11.145	11032	10	19.564	17.946	11104	12	13.568	23.376
10807	29	15.673	25.626	10889*	26	5.060	4.814	10961	11	7.518	11.930	11033	13	21.650	17.834	11105	14	17.015	23.845
10808	21	16.721	25.851	10890	8	5.975	4.734	10962	8	7.884	11.690	11034	13	24.404	17.376	11106	10	17.106	23.103
10809	10	18.428	25.424	10891	9	10.120	4.929	10963	9	8.306	11.348	11035	12	0.550	18.128	11107	8	17.782	23.570
10810	34	19.971	25.598	10892*	29	14.339	4.736	10964	11	10.224	11.973	11036	9	1.214	18.946	11108*	38	18.051	23.017
10811	44	20.528	25.334	10893	10	16.323	4.200	10965	11	12.806	11.550	11037	8	7.166	18.085	11109	9	20.882	23.887
10812	33	20.995	25.077	10894	14	20.024	4.454	10966*	150	13.619	11.395	11038	10	8.046	18.968	11110	8	21.607	23.182
10813	37	21.576	25.957	10895	22	20.820	4.109	10967	8	13.667	11.506	11039	8	9.832	18.212	11111	8	22.182	23.224
10814	14	23.920	25.018	10896	10	24.884	4.042	10968	8	16.329	11.650	11040	16	14.274	18.672	11112	8	1.516	24.962
10815	13	24.574	25.188	10897	10	25.220	4.752	10969	10	16.960	11.800	11041*	19	16.746	18.722	11113	12	1.751	24.140
10816	26	25.816	25.944	10898	8	25.414	4.506	10970	8	18.483	11.148	11042	13	16.762	18.018	11114	14	2.374	24.073
R.A. 5 ^h 28 ^m Plate 476; 1915 Feb. 11. Provisional Constants. A B C -01773 +00299 -0832 D E F -00289 -01796 -0847 Mag.=15.1-1.10√d				10899	8	0.148	5.034	10971	9	18.786	11.658	11043	15	17.580	18.480	11115	17	3.080	24.953
				10900	8	0.458	5.542	10972	15	20.350	11.368	11044	8	18.506	18.974	11116	14	3.718	24.426
				10901	8	1.600	5.322	10973	22	24.745	11.377	11045	14	19.877	18.806	11117	13	7.710	24.051
				10902	20	1.948	5.660	10974	12	24.958	11.357	11046	19	22.840	18.180	11118	10	8.622	24.406
				10903	12	3.016	5.132	10975	9	0.674	12.464	11047	9	23.138	18.252	11119	8	8.630	24.942
				10904	11	3.098	5.072	10976	16	2.066	12.204	11048	14	24.742	18.542	11120	8	11.035	24.536
				10905*	35	3.438	5.635	10977	12	13.172	12.883	11049	8	1.622	19.670	11121	21	11.370	24.840
				10906	9	4.052	5.580	10978	9	15.578	12.335	11050	8	1.796	19.132	11122	8	11.916	24.170
				10907	11	4.214	5.920	10979	11	16.870	12.704	11051	12	2.489	19.084	11123	9	15.212	24.437
				10908	10	5.854	5.632	10980	9	18.024	12.540	11052*	22	3.670	19.461	11124	10	16.585	24.499
R.A. 5 ^h 36 ^m Plate 864; 1916 Nov. 28. Provisional Constants. A B C -02551 +00194 +2930 D E F -00214 -02578 -0551 Mag.=16.1-1.05√d				10909	9	8.746	5.075	10981	14	23.629	12.914	11053	10	9.925	19.840	11125	12	20.694	24.128
				10910*	21	9.706	5.792	10982	10	23.833	12.024	11054	14	12.030	19.974	11126	8	21.989	24.401
				10911	13	12.876	5.520	10983	19	24.889	12.302	11055	9	17.436	19.282	11127	8	3.810	25.360
				10912	10	16.287	5.180	10984	15	25.758	12.650	11056	12	18.256	19.850	11128	17	6.106	25.766
				10913	8	16.470	5.693	10985	43	0.242	13.748	11057	12	19.787	19.694	11129	11	11.446	25.380
				10914	17	19.953	5.070	10986	10	3.863	13.254	11058	12	20.508	19.642	11130	8	13.020	25.482
				10915	8	2.202	6.396	10987	10	4.466	13.724	11059*	28	6.580	20.156	11131	16	13.120	25.648
				10916*	38	3.054	6.900	10988	8	7.522	13.888	11060*	24	7.154	20.560	11132	12	19.184	25.794
				10917	9	4.604	6.784	10989	12	12.594	13.690	11061	11	7.803	20.261	11133	8	20.966	25.390
				10918	13	6.045	6.260	10990	11	13.645	13.015	11062*	32	8.050	20.734	11134	9	22.120	25.481
No. d x y 10851* 42 1.338 0.135 10852 8 1.462 0.546 10853 9 2.100 0.436 10854 8 2.358 0.259 10855* 26 14.504 0.969 10856 8 16.614 0.328 10857 24 17.953 0.451 10858 9 19.100 0.049 10859 11 22.884 0.830 10860 15 8.100 1.631 10861 12 8.600 1.510 10862* 28 9.585 1.386 10863 11 13.660 1.416 10864 8 17.582 1.542 10865 34 25.225 1.771 10866 8 6.847 2.215 10867 9 8.500 2.743 10868 15 10.469 2.656 10869 14 12.908 2.021 10870 8 14.529 2.697 10871 11 15.602 2.516 10872 9 17.826 2.495 10873 8 19.200 2.420 10874 12 22.238 2.832 10875 26 1.895 3.694 10876 11 4.382 3.079 10877 11 8.220 3.587 10878 23 10.866 3.844				10919	8	9.322	6.060	10991	8	15.480	13.378	11063	11	9.120	20.180				
				10920	8	10.270	6.018	10992	15	18.000	13.886	11064	14	9.614	20.145				
				10921	12	12.434	6.720	10993	8	18.893	13.432	11065	20	9.638	20.148				
				10922	9	13.209	6.366	10994	10	19.423	13.204	11066	10	11.520	20.220				
				10923	15	16.338	6.768	10995	8	22.376	13.328	11067*	28	15.120	20.095				
				10924	17	20.919	6.444	10996	12	22.568	13.770	11068	9	16.810	20.799				
				10925	14	24.240	6.346	10997	12	23.398	13.862	11069	10	17.617	20.222				
				10926	9	7.120	7.684	10998	9	24.310	13.133	11070	8	18.250	20.905				
				10927	14	9.578	7.913	10999	13	1.311	14.344	11071	12	18.721	20.815				
				10928	8	11.776	7.658	11000	8	1.773	14.969	11072	16	25.928	20.302				
No. d x y 11151 14 0.698 0.930 11152 58 0.741 0.082 11153 12 2.666 0.050 11154 11 4.042 0.010 11155 12 5.413 0.962 11156 16 5.594 0.517 11157 13 7.309 0.142 11158* 61 7.852 0.604				10929	10	12.388	7.358	11001	9	5.758	14.537	11073*	25	0.874	21.464				
				10930	9	16.584	7.044	11002	11	7.694	14.600	11074	10	2.050	21.204				
				10931	10	23.891	7.101	11003	9	8.383	14.952	11075	12	2.421	21.160				
				10932	13	24.047	7.618	11004*	25	10.542	14.779	11076	8	3.043	21.126				
				10933	9	3.808	8.490	11005	10	11.417	14.188	11077	8	7.413	21.998				
				10934	11	4.825	8.570	11006	14	14.099	14.926	11078	10	8.780	21.240				
				10935	9	10.054	8.630	11007	9	17.892	14.246	11079*	32	10.940	21.978				
				10936*	22	11.761	8.407	11008	9	21.006	14.976	11080	9	12.684	21.600				
				10937	15	11.815	8.277	11009	13	23.243	14.262	11081	10	13.755	21.142				
				10938	10	15.815	8.758	11010	17	0.071	15.263	11082	8	15.7					

11159	9	8.430	0.752	11231	10	25.296	4.928	11303	11	19.714	8.230	11375	24	18.549	11.422	11447	8	13.680	15.746
11160	9	10.162	0.124	11232	51	25.304	4.344	11304	9	19.880	8.038	11376	12	18.615	11.087	11448	26	13.799	15.393
11161	8	12.103	0.613	11233	9	0.381	5.023	11305	8	20.832	8.674	11377	8	22.446	11.154	11449	9	14.201	15.306
11162*	33	12.609	0.962	11234	8	4.430	5.536	11306	32	21.600	8.316	11378	13	25.671	11.852	11450	10	14.537	15.250
11163	9	13.612	0.198	11235	8	5.480	5.458	11307	8	22.194	8.165	11379	9	0.662	12.212	11451	9	16.566	15.604
11164	12	13.682	0.474	11236	10	6.920	5.248	11308	14	25.710	8.172	11380	8	0.903	12.290	11452	9	17.754	15.634
11165	14	14.636	0.929	11237	17	9.998	5.852	11309	21	1.629	9.296	11381	24	1.552	12.908	11453	11	18.000	15.634
11166*	37	15.054	0.035	11238	8	10.737	5.590	11310	16	2.600	9.317	11382	14	1.744	12.025	11454	15	18.104	15.892
11167	9	16.645	0.995	11239	8	11.627	5.256	11311	10	2.997	9.062	11383	30	2.794	12.292	11455	12	20.098	15.080
11168	12	18.486	0.564	11240	12	13.081	5.790	11312	10	3.018	9.208	11384	22	3.660	12.628	11456	14	22.686	15.788
11169	29	19.941	0.944	11241	23	13.228	5.003	11313	9	3.330	9.536	11385	8	4.462	12.196	11457	9	25.065	15.764
11170	9	23.972	0.190	11242	14	13.338	5.543	11314	12	6.588	9.012	11386	8	6.080	12.904	11458	14	6.942	16.742
11171	16	25.954	0.792	11243	22	15.186	5.496	11315	10	6.726	9.095	11387	8	6.814	12.860	11459	12	7.814	16.667
11172*	52	3.022	1.836	11244	9	19.314	5.618	11316	11	7.610	9.230	11388	9	9.624	12.948	11460	8	8.717	16.033
11173	12	6.525	1.582	11245	8	19.952	5.722	11317	8	11.480	9.740	11389	20	10.321	12.425	11461	18	10.247	16.370
11174	21	10.746	1.972	11246	13	20.984	5.481	11318	21	14.985	9.904	11390	8	11.318	12.464	11462	18	10.893	16.383
11175	10	12.497	1.600	11247	16	21.060	5.782	11319*	63	16.024	9.842	11391	10	11.379	12.954	11463	12	12.410	16.030
11176	33	13.994	1.884	11248	10	21.186	5.158	11320	8	16.862	9.268	11392	32	13.133	12.392	11464	21	14.573	16.928
11177	13	14.486	1.204	11249	20	21.493	5.360	11321	9	18.917	9.896	11393	8	13.656	12.182	11465	17	16.840	16.493
11178*	61	18.944	1.646	11250	20	2.093	6.387	11322	8	19.218	9.284	11394	8	17.352	12.066	11466	25	18.020	16.885
11179	8	20.759	1.748	11251	10	5.024	6.257	11323	26	19.970	9.236	11395	10	17.588	12.643	11467	12	19.732	16.320
11180	24	21.384	1.612	11252*	40	5.381	6.638	11324	8	20.281	9.628	11396	9	17.691	12.024	11468	14	20.225	16.357
11181	35	23.366	1.368	11253	18	8.229	6.620	11325	8	20.825	9.610	11397	33	18.136	12.636	11469	10	20.988	16.980
11182	8	25.197	1.078	11254	12	8.400	6.932	11326	11	21.502	9.295	11398*	39	20.226	12.382	11470	8	23.017	16.757
11183	18	0.075	2.923	11255	8	8.658	6.916	11327	9	25.181	9.600	11399	18	20.784	12.972	11471*	54	23.221	16.460
11184	29	6.319	2.342	11256	9	9.288	6.507	11328	11	25.350	9.117	11400	12	22.374	12.910	11472	9	24.276	16.828
11185	13	6.518	2.719	11257	9	10.472	6.840	11329	8	1.786	10.360	11401	9	23.257	12.582	11473	10	24.407	16.936
11186*	66	8.297	2.394	11258	9	11.638	6.456	11330	8	1.793	10.511	11402	17	24.826	12.024	11474	9	0.466	17.310
11187	11	8.742	2.395	11259	19	11.772	6.728	11331	9	4.309	10.495	11403	10	25.301	12.076	11475	10	1.610	17.500
11188	17	9.897	2.407	11260	12	12.207	6.160	11332	24	6.879	10.250	11404	10	25.745	12.580	11476	25	2.362	17.329
11189	8	11.382	2.257	11261	12	12.626	6.672	11333	10	9.754	10.602	11405	24	0.510	13.768	11477	9	4.936	17.737
11190	38	11.448	2.073	11262	16	12.684	6.338	11334	20	11.458	10.160	11406	8	1.242	13.692	11478	8	5.006	17.801
11191*	61	12.516	2.733	11263	12	13.717	6.453	11335	23	15.554	10.963	11407	15	1.333	13.852	11479	10	5.668	17.829
11192	8	15.268	2.581	11264	14	14.620	6.556	11336	10	15.767	10.382	11408	10	2.228	13.118	11480	31	8.056	17.790
11193	8	16.668	2.560	11265	11	15.333	6.920	11337	13	15.896	10.478	11409	9	5.678	13.506	11481	10	9.224	17.530
11194	12	17.551	2.493	11266	10	15.356	6.987	11338	8	16.049	10.529	11410	14	5.908	13.068	11482	27	10.189	17.438
11195	11	18.440	2.990	11267	8	16.116	6.911	11339	23	16.156	10.050	11411	12	11.670	13.431	11483	24	10.504	17.120
11196	14	25.321	2.770	11268	10	16.400	6.887	11340	9	16.286	10.354	11412	8	12.401	13.667	11484	26	10.691	17.692
11197	8	0.802	3.748	11269	11	20.246	6.150	11341	8	17.148	10.029	11413	12	17.071	13.992	11485	10	11.596	17.230
11198	12	1.816	3.538	11270	22	20.600	6.710	11342	13	17.180	10.218	11414*	40	19.504	13.028	11486*	35	14.172	17.750
11199*	39	3.458	3.667	11271	15	23.208	6.448	11343	12	17.358	10.282	11415	10	22.876	13.722	11487	16	14.399	17.112
11200	31	4.492	3.977	11272	10	25.014	6.624	11344*	41	19.257	10.708	11416	15	23.207	13.994	11488	11	14.555	17.335
11201	24	4.538	3.251	11273*	40	25.043	6.300	11345	24	19.322	10.710	11417*	38	23.522	13.930	11489	10	14.562	17.736
11202	13	5.056	3.315	11274	14	1.754	7.138	11346*	40	20.072	10.598	11418	12	24.412	13.906	11490	8	17.408	17.530
11203	8	7.259	3.702	11275	22	1.913	7.650	11347	26	21.097	10.856	11419	21	1.180	14.250	11491	42	17.447	17.920
11204	10	8.592	3.572	11276	8	2.664	7.275	11348	9	22.599	10.147	11420	9	1.990	14.142	11492	8	18.077	17.618
11205	18	12.042	3.436	11277	8	3.035	7.837	11349	21	23.736	10.910	11421	8	2.049	14.329	11493*	58	19.813	17.369
11206	17	15.218	3.563	11278	13	7.300	7.602	11350	9	24.732	10.190	11422	11	4.475	14.207	11494	18	20.186	17.430
11207	8	16.509	3.677	11279	32	10.058	7.106	11351	31	24.916	10.350	11423	20	4.492	14.275	11495	16	20.523	17.108
11208*	39	16.968	3.991	11280	13	11.436	7.861	11352	8	1.526	11.960	11424	14	5.747	14.910	11496	26	21.005	17.668
11209	13	17.590	3.817	11281	13	13.212	7.095	11353	32	2.642	11.372	11425	9	6.016	14.217	11497	14	21.052	17.923
11210	13	17.666	3.493	11282	16	13.828	7.889	11354	20	2.855	11.351	11426	9	6.469	14.448	11498	10	21.318	17.890
11211	19	18.046	3.441	11283*	71	18.059	7.660	11355	10	3.858	11.996	11427	8	7.280	14.402	11499	8	23.147	17.763
11212	22	18.348	3.569	11284	29	19.457	7.968	11356	26	4.128	11.228	11428	9	11.015	14.996	11500	31	0.816	18.140
11213	30	19.986	3.455	11285	8	21.286	7.350	11357	8	4.234	11.388	11429	14	13.862	14.007	11501	13	1.116	18.210
11214	8	20.060	3.736	11286	9	21.342	7.157	11358	38	5.460	11.156	11430	25	16.462	14.768	11502	26	2.708	18.482
11215	30	22.152	3.874	11287	33	23.083	7.444	11359	12	5.660	11.055	11431	11	16.500	14.679	11503	8	2.886	18.764
11216	8	24.186	3.606	11288	14	0.050	8.512	11360	9	5.912	11.146	11432	10	17.303	14.332	11504	8	4.034	18.714
11217	26	24.480	3.005	11289	8	3.148	8.888	11361	9	6.603	11.520	11433	8	17.790	14.136	11505	9	4.874	18.706
11218	15	25.344	3.037	11290	26	4.378	8.522	11362	20	7.778	11.879	11434	12	17.820	14.063	11506	10	5.666	18.698
11219	22	2.713	4.093	11291	9	5.818	8.472	11363*	55	9.454	11.291	11435	10	19.749	14.820	11507	19	5.924	18.644
11220	15	3.052	4.798	11292	8	6.586	8.686	11364*	104	9.822	11.491	11436	15	21.420	14.437	11508	32	8.665	18.120
11221	14	3.243	4.550	11293	19	7.184	8.461	11365*	46	9.852	11.246	11437	8	22.050	14.918	11509	10	8.974	18.554

11519	10	16.828	18.036	11591	8	6.839	22.290	11663	13	0.182	25.388	11738	8	13.890	2.063	11810	19	22.117	7.672
11520	17	17.963	18.690	11592	8	7.600	22.943	11664	10	4.020	25.525	11739	19	14.050	2.020	11811	30	0.630	8.248
11521	9	18.070	18.082	11593	9	7.634	22.418	11665	8	6.018	25.722	11740	8	14.255	2.315	11812	12	3.266	8.945
11522	8	19.497	18.481	11594	9	7.894	22.970	11666	9	6.302	25.549	11741	31	15.230	2.081	11813	8	7.226	8.988
11523	37	19.808	18.301	11595	12	8.604	22.386	11667	30	10.500	25.830	11742	31	15.710	2.886	11814	12	8.604	8.040
11524	36	20.670	18.322	11596	9	8.916	22.836	11668	10	11.250	25.835	11743*	52	22.823	2.093	11815	8	12.198	8.826
11525	26	21.900	18.603	11597	10	10.522	22.359	11669	44	14.656	25.817	11744	20	1.990	3.793	11816	19	14.854	8.238
11526	8	22.491	18.900	11598	9	13.163	22.514	11670	9	17.439	25.702	11745	15	2.830	3.548	11817*	44	15.518	8.817
11527	8	22.798	18.523	11599	8	13.217	22.375	11671	8	18.882	25.502	11746	16	2.857	3.815	11818	17	16.333	8.783
11528	11	23.430	18.130	11600	11	13.666	22.935	11672	10	19.112	25.246	11747	10	4.438	3.644	11819	9	16.569	8.144
11529	13	23.664	18.500	11601	13	13.764	22.128	11673	9	25.934	25.698	11748	10	5.092	3.197	11820	8	22.830	8.723
11530	27	4.485	19.096	11602	37	15.066	22.833					11749	12	5.944	3.421	11821*	56	23.366	8.450
11531	11	4.769	19.697	11603	24	16.680	22.200					11750	32	8.268	3.474	11822	14	25.476	8.551
11532*	38	5.324	19.047	11604	11	17.562	22.151					11751	15	14.110	3.502	11823	10	2.920	9.894
11533	37	5.916	19.772	11605	10	17.800	22.447					11752	26	15.104	3.402	11824	29	4.516	9.959
11534	8	8.099	19.353	11606	28	20.376	22.452					11753	16	18.158	3.717	11825	10	6.882	9.276
11535	19	8.505	19.422	11607	27	20.684	22.556					11754	15	18.737	3.342	11826	8	7.506	9.081
11536	17	9.524	19.724	11608	12	22.843	22.291					11755*	32	19.132	3.492	11827	11	7.846	9.598
11537	9	9.648	19.276	11609	8	0.226	23.150					11756	38	21.324	3.457	11828	10	9.735	9.716
11538*	40	11.670	19.440	11610	10	0.618	23.680					11757	17	1.163	4.996	11829	14	10.189	9.924
11539	9	13.180	19.036	11611	8	1.305	23.449					11758	13	2.224	4.805	11830	22	10.448	9.601
11540	8	13.438	19.758	11612	8	3.314	23.400					11759	22	4.222	4.706	11831	27	10.616	9.175
11541	13	14.240	19.922	11613*	48	4.017	23.958					11760	8	4.378	4.088	11832	11	11.396	9.388
11542	8	15.864	19.512	11614	11	5.019	23.773					11761	30	5.952	4.182	11833	11	11.492	9.612
11543*	100	21.274	19.645	11615	8	5.101	23.148					11762	13	7.368	4.830	11834	12	14.692	9.390
11544	8	21.449	19.378	11616	30	6.658	23.622					11763	13	13.064	4.857	11835	10	15.520	9.938
11545	16	22.774	19.168	11617	8	7.871	23.576					11764	14	15.334	4.643	11836	8	17.255	9.638
11546	8	22.962	19.722	11618	9	9.666	23.851					11765	8	15.782	4.762	11837	9	17.502	9.722
11547	14	23.136	19.924	11619	14	9.800	23.358					11766	8	16.509	4.638	11838	19	19.754	9.762
11548	14	23.816	19.128	11620	15	10.737	23.740					11767	28	19.367	4.707	11839	11	20.336	9.860
11549	16	24.166	19.915	11621*	33	11.986	23.873					11768	8	22.484	4.860	11840*	46	23.910	9.240
11550	10	1.502	20.474	11622	10	12.432	23.457					11769	10	22.677	4.600	11841	8	24.500	9.901
11551	25	3.904	20.214	11623	8	12.642	23.868					11770	8	22.935	4.466	11842	27	24.840	9.989
11552	8	5.098	20.151	11624	29	13.366	23.476					11771	13	23.010	4.109	11843	8	25.548	9.379
11553	8	6.224	20.598	11625	19	13.817	23.082					11772	18	24.544	4.700	11844	8	3.594	10.806
11554	10	9.230	20.008	11626	15	13.926	23.928					11773	8	2.823	5.703	11845	10	4.513	10.378
11555	8	10.072	20.310	11627	15	14.400	23.308					11774*	50	2.824	5.128	11846	8	4.948	10.564
11556	8	10.242	20.943	11628	31	15.942	23.905					11775	14	5.190	5.844	11847	15	5.671	10.101
11557	16	12.149	20.590	11629	20	16.272	23.820					11776	12	7.213	5.490	11848	12	5.700	10.094
11558	13	13.507	20.703	11630	37	17.458	23.372					11777	8	7.470	5.424	11849	8	5.800	10.916
11559	10	14.636	20.087	11631	13	17.464	23.114					11778	10	7.899	5.668	11850	29	8.006	10.540
11560	29	15.733	20.938	11632	16	20.099	23.208					11779	8	9.080	5.095	11851	8	11.086	10.510
11561	8	16.301	20.172	11633	14	22.175	23.050					11780	8	9.838	5.470	11852	19	12.802	10.436
11562	10	20.394	20.120	11634	20	22.214	23.570					11781	20	14.576	5.504	11853	17	17.643	10.696
11563	14	22.386	20.797	11635	8	22.488	23.355					11782	10	16.566	5.136	11854	28	18.145	10.872
11564	10	23.336	20.226	11636	8	22.740	23.462					11783	8	18.020	5.376	11855	26	22.778	10.786
11565	23	25.077	20.821	11637	15	23.070	23.838					11784	8	22.422	5.528	11856	8	23.988	10.142
11566	17	0.394	21.007	11638	10	23.256	23.491					11785	18	22.724	5.868	11857	36	24.448	10.532
11567	14	0.715	21.661	11639	41	23.424	23.046					11786	10	10.964	6.363	11858	8	24.680	10.009
11568*	48	1.173	21.818	11640	8	24.749	23.799					11787	8	12.347	6.586	11859	22	25.616	10.594
11569	22	1.860	21.954	11641	8	25.506	23.494					11788	8	12.459	6.899	11860	19	1.318	11.706
11570	30	2.762	21.684	11642	8	0.039	24.320					11789	16	12.643	6.866	11861	30	2.493	11.135
11571	25	3.308	21.839	11643	8	3.402	24.079					11790	12	12.988	6.676	11862	8	4.241	11.766
11572	11	6.561	21.008	11644	9	3.748	24.518					11791	12	18.569	6.504	11863	19	4.766	11.225
11573	9	6.684	21.348	11645	19	5.828	24.352					11792	10	19.404	6.322	11864	12	7.860	11.337
11574	8	6.966	21.576	11646	10	6.123	24.085					11793	8	19.910	6.720	11865	16	11.361	11.132
11575*	42	7.014	21.642	11647	9	7.718	24.168					11794	15	20.677	6.338	11866	8	14.854	11.376
11576	8	7.284	21.400	11648	10	8.713	24.634					11795	12	21.825	6.230	11867	10	17.567	11.630
11577	17	10.485	21.941	11649	9	9.388	24.752					11796	15	23.944	6.297	11868	22	18.550	11.300
11578*	37	11.090	21.678	11650	8	13.372	24.622					11797	13	0.750	7.248	11869	12	19.056	11.162
11579	13	12.194	21.616	11651	16	13.541	24.944					11798*	39	2.578	7.086	11870	32	20.530	11.051
11580	12	12.702	21.332	11652	8	13.562	24.190					11799	8	2.558	7.410	11871	12	22.109	11.540
11581*	40	13.308	21.944	11653	11	14.888	24.736					11800	15	4.420	7.512	11872	8	22.712	11.448
11582	10	15.074	21.346	11654	15	14.944	24.176					11801*	34	5.424	7.015	11873	13	2.422	12.808
11583	8	19.288	21.826	11655	12	15.740	24.556					11802	8	8.294	7.482	11874	8	2.894	12.858
11584	14	19.394	21.960	11656*	41	17.578	24.660					11803	9	9.325	7.860	11875	12	3.266	12.630
11585	10	22.173	21.542	11657	8	20.108	24.706					11804	17	11.029	7.350	11876	10	4.594	12.534
11586	8	22.329	21.212	11658	9	23.878	24.863					11805	13	11.420	7.576	11877	8	4.601	12.362
11587	13	22.444	21.072	11659	12	24.154	24.861					11806	14	12.522	7.101	11878	24	6.626	12.100

11882	8	10.250	12.254	11954	10	11.909	17.480	12026	11	22.910	22.179	12105	12	13.397	0.494	12177	11	10.643	8.110
11883	40	12.820	12.354	11955	8	12.520	17.840	12027	40	22.994	22.403	12106	8	15.233	0.867	12178	12	13.682	8.766
11884*	48	18.215	12.950	11956	8	16.232	17.044	12028	9	25.284	22.717	12107	12	19.984	0.414	12179	8	14.051	8.118
11885	14	18.447	12.937	11957	13	16.858	17.832	12029	8	0.534	23.097	12108	20	20.064	0.112	12180	12	15.661	8.390
11886*	66	21.348	12.520	11958	17	22.018	17.880	12030	41	1.121	23.845	12109	9	21.150	0.898	12181	20	17.424	8.695
11887	8	21.570	12.080	11959	12	25.087	17.733	12031	8	8.104	23.306	12110	12	21.219	0.032	12182	22	18.380	8.628
11888	31	24.936	12.060	11960	8	1.082	18.928	12032	22	8.610	23.830	12111	8	25.015	0.682	12183	8	19.548	8.833
11889	18	24.959	12.227	11961	30	3.922	18.614	12033	18	9.375	23.264	12112	45	0.180	1.197	12184	9	24.371	8.317
11890	22	8.175	13.050	11962	8	7.366	18.356	12034	22	12.437	23.216	12113	8	8.077	1.594	12185	18	0.234	9.958
11891	28	11.577	13.134	11963	41	8.500	18.297	12035	8	15.692	23.481	12114	15	8.436	1.188	12186	22	1.914	9.682
11892	10	23.383	13.114	11964	27	8.592	18.408	12036	19	16.437	23.660	12115	13	12.067	1.446	12187	18	2.304	9.132
11893	8	25.358	13.250	11965	10	13.522	18.224	12037	10	16.592	23.828	12116	8	19.796	1.316	12188	12	3.100	9.730
11894	13	0.034	14.833	11966	24	15.995	18.004	12038	8	17.904	23.728	12117*	33	21.086	1.739	12189	8	5.645	9.388
11895	9	0.816	14.794	11967	8	17.650	18.832	12039	8	18.860	23.690	12118*	20	22.122	1.753	12190*	21	7.388	9.300
11896*	31	1.132	14.728	11968	16	19.384	18.360	12040	8	19.796	23.892	12119*	32	6.265	2.212	12191	8	10.078	9.824
11897	9	2.023	14.694	11969	16	19.495	18.018	12041	14	19.930	23.981	12120*	21	15.874	2.232	12192	8	11.424	9.793
11898*	46	2.632	14.880	11970	8	24.193	18.988	12042	8	21.763	23.445	12121	11	15.914	2.250	12193	13	19.200	9.115
11899	24	6.015	14.160	11971	11	0.436	19.970	12043	13	25.550	23.076	12122	9	19.064	2.904	12194	8	23.566	9.458
11900*	38	8.795	14.822	11972	10	1.322	19.300	12044	8	25.800	23.756	12123	13	19.450	2.285	12195	9	23.880	9.252
11901	8	9.000	14.145	11973	8	1.480	19.922	12045	10	0.776	24.640	12124	8	22.638	2.742	12196	10	24.758	9.898
11902	8	9.070	14.074	11974	18	3.800	19.422	12046	8	0.956	24.293	12125	8	0.065	3.727	12197*	29	3.708	10.105
11903	8	9.639	14.956	11975	16	4.382	19.907	12047	8	3.216	24.274	12126	8	0.396	3.224	12198	8	5.571	10.809
11904	8	9.826	14.550	11976	8	4.404	19.556	12048	8	11.363	24.469	12127	12	1.950	3.804	12199	13	6.544	10.856
11905	8	12.276	14.604	11977	19	8.026	19.264	12049	11	11.400	24.480	12128	9	4.005	3.977	12200*	28	7.242	10.046
11906*	40	14.798	14.381	11978	11	8.734	19.782	12050	8	12.608	24.728	12129	12	5.124	3.617	12201	8	7.836	10.272
11907	23	16.242	14.472	11979	33	10.502	19.188	12051	8	12.990	24.823	12130	8	5.577	3.476	12202	9	8.966	10.726
11908	27	16.402	14.192	11980	24	15.570	19.700	12052	18	14.126	24.390	12131	13	6.145	3.036	12203	11	12.210	10.494
11909	12	19.752	14.773	11981	8	17.119	19.882	12053	11	15.774	24.827	12132	11	8.827	3.440	12204	9	12.306	10.766
11910	8	21.350	14.379	11982	35	19.448	19.280	12054	40	16.351	24.800	12133	11	8.836	3.742	12205	8	12.602	10.694
11911	8	22.684	14.578	11983	10	20.636	19.562	12055	11	19.620	24.091	12134	8	10.110	3.122	12206*	34	12.676	10.720
11912	10	23.102	14.944	11984	10	0.804	20.727	12056	8	22.666	24.668	12135	21	10.253	3.254	12207	11	12.872	10.496
11913	14	24.988	14.213	11985	10	1.834	20.706	12057	12	22.933	24.552	12136*	40	12.279	3.719	12208	12	13.143	10.256
11914	8	0.946	15.456	11986	16	6.374	20.450	12058	16	23.092	24.640	12137*	25	4.210	4.122	12209	12	13.324	10.923
11915	8	4.446	15.328	11987	8	9.394	20.252	12059	8	1.598	25.656	12138	8	6.764	4.366	12210	9	14.585	10.835
11916	9	4.790	15.156	11988	11	10.145	20.668	12060	8	1.874	25.654	12139	8	8.186	4.903	12211	14	2.424	11.216
11917	8	5.757	15.418	11989*	44	11.340	20.954	12061	8	2.787	25.104	12140	8	8.466	4.355	12212	10	2.450	11.386
11918	21	7.346	15.896	11990	8	12.653	20.454	12062	8	3.088	25.103	12141	13	10.310	4.014	12213	9	4.170	11.546
11919*	66	9.332	15.762	11991	20	16.796	20.370	12063*	45	3.322	25.647	12142	20	11.355	4.631	12214	8	4.423	11.599
11920	8	9.890	15.694	11992	10	18.450	20.490	12064*	44	8.169	25.090	12143*	21	12.734	4.206	12215	8	6.542	11.680
11921	26	10.235	15.262	11993*	40	19.784	20.837	12065*	42	10.466	25.203	12144	12	16.856	4.304	12216	21	10.090	11.746
11922*	29	12.350	15.638	11994	10	21.364	20.364	12066	20	11.722	25.528	12145	8	18.612	4.222	12217*	30	11.885	11.272
11923	8	16.205	15.036	11995	8	23.474	20.628	12067*	50	12.979	25.709	12146	8	20.775	4.553	12218	16	16.300	11.020
11924	16	19.559	15.813	11996	9	0.064	21.606	12068	8	17.355	25.234	12147	8	24.706	4.633	12219*	31	20.720	11.468
11925	8	20.336	15.772	11997	10	0.126	21.880	12069*	57	23.520	25.990	12148	13	25.580	4.608	12220	9	21.405	11.578
11926	40	20.363	15.666	11998	17	2.756	21.604					12149	12	0.125	5.004	12221	8	21.447	11.807
11927	8	22.864	15.414	11999	8	4.469	21.504					12150	8	1.363	5.420	12222	8	0.872	12.301
11928	16	23.057	15.046	12000*	44	6.556	21.758					12151	16	5.644	5.543	12223	19	4.165	12.388
11929	10	0.314	16.592	12001	12	7.518	21.408					12152	8	10.706	5.613	12224*	27	10.814	12.807
11930	16	4.108	16.180	12002	9	10.650	21.180					12153	20	13.061	5.694	12225	8	12.095	12.808
11931	8	6.628	16.570	12003*	58	13.004	21.980					12154	24	16.984	5.415	12226	10	12.384	12.036
11932	11	7.046	16.384	12004	26	13.497	21.368					12155	20	18.201	5.904	12227*	29	17.860	12.466
11933	8	11.139	16.707	12005	8	13.648	21.222					12156	8	23.840	5.334	12228	12	18.956	12.495
11934	12	11.849	16.099	12006	8	16.777	21.636					12157	12	25.184	5.147	12229	20	19.860	12.740
11935	8	13.510	16.277	12007*	37	17.113	21.496					12158	12	10.698	6.919	12230	12	19.928	12.652
11936	12	17.247	16.945	12008	20	17.164	21.006					12159	8	11.495	6.366	12231	8	25.465	12.844
11937	10	17.489	16.808	12009	11	19.010	21.750					12160	14	14.482	6.856	12232	8	0.188	13.782
11938*	51	17.722	16.994	12010	8	20.596	21.416					12161	10	15.655	6.298	12233	8	2.503	13.390
11939	10	18.094	16.456	12011	8	22.963	21.382					12162	12	16.420	6.420	12234*	24	3.551	13.250
11940	8	18.293	16.049	12012	9	23.050	21.880					12163	9	18.086	6.981	12235	13	9.058	13.988
11941	25	20.100	16.390	12013	11	7.140	22.910					12164	12	23.485	6.355	12236	8	10.676	13.402
11942	8	20.248	16.906	12014	8	7.328	22.875					12165*	47	0.798	7.600	12237	18	10.769	13.128
11943	30	25.535	16.790	12015	8	9.672	22.030					12166	10	2.931	7.676	12238	9	12.350	13.145
11944*	63	0.850	17.260	12016	8	10.127	22.058					12167	12	10.732	7.440	12239	16	12.796	13.152
11945	8	2.050	17.723	12017	13	11.199	22.601					12168	18	19.592	7.238	12240	8	15.649	13.090
11946	8	4.242	17.114	12018	39	11.480	22.481					12169	8	21.336	7.152	12241*	60	15.934	13.290
11947	8	6.436	17.																

12249	8	0.610	14.142	12321	8	20.680	20.360	12407	10	12.850	0.444	12479	14	21.230	6.383	12551	8	25.647	12.164
12250	11	3.988	14.563	12322	22	21.407	20.328	12408*	67	16.678	0.216	12480	10	21.960	6.607	12552	32	25.658	12.136
12251	9	4.616	14.364	12323	20	23.205	20.113	12409	9	20.734	0.641	12481	32	22.044	6.946	12553	8	1.142	13.784
12252*	22	5.539	14.506	12324	20	25.004	20.654	12410	26	23.244	0.075	12482	12	22.786	6.145	12554	12	2.212	13.618
12253	13	9.175	14.726	12325	8	25.838	20.189	12411	12	2.740	1.138	12483	8	22.865	6.684	12555	11	2.762	13.572
12254	8	9.460	14.079	12326	8	0.500	21.441	12412	26	4.595	1.072	12484	27	8.136	7.788	12556	8	4.120	13.667
12255	8	10.837	14.828	12327	24	0.587	21.662	12413	28	7.166	1.824	12485	8	13.355	7.500	12557	8	4.737	13.550
12256	10	12.286	14.456	12328	8	0.634	21.135	12414	8	10.502	1.767	12486	10	13.365	7.993	12558*	42	5.434	13.366
12257	9	15.698	14.324	12329	8	2.902	21.955	12415	11	11.210	1.725	12487*	25	17.860	7.508	12559	13	5.746	13.636
12258	8	25.856	14.324	12330	9	4.468	21.794	12416	9	12.776	1.768	12488	14	19.334	7.514	12560	12	10.335	13.072
12259	18	3.084	15.976	12331	8	5.082	21.942	12417	12	13.380	1.630	12489	23	19.722	7.212	12561	12	12.900	13.703
12260	8	3.472	15.628	12332	8	7.763	21.848	12418	20	18.738	1.890	12490	11	19.837	7.286	12562*	47	14.100	13.442
12261	8	8.316	15.758	12333	10	10.851	21.900	12419	30	19.750	1.434	12491*	30	21.995	7.804	12563	8	17.859	13.608
12262	8	8.770	15.906	12334	16	15.257	21.088	12420	32	24.850	1.427	12492	8	0.242	8.204	12564*	40	17.876	13.119
12263	16	16.457	15.661	12335	26	16.286	21.360	12421	10	0.282	2.894	12493	12	2.078	8.446	12565*	27	17.894	13.008
12264	10	16.770	15.055	12336*	23	17.774	21.906	12422	9	0.512	2.398	12494	9	3.008	8.016	12566	23	20.958	13.354
12265	10	19.874	15.066	12337	12	19.386	21.008	12423	26	5.984	2.292	12495	11	7.707	8.806	12567	8	21.192	13.886
12266	8	21.160	15.182	12338	20	21.530	21.108	12424	11	11.061	2.942	12496	13	10.408	8.506	12568	9	24.820	13.841
12267	8	22.555	15.740	12339	10	3.178	22.314	12425	9	12.042	2.082	12497	8	16.038	8.246	12569	9	0.316	14.200
12268	11	23.198	15.762	12340	12	5.102	22.350	12426	12	13.166	2.139	12498	16	18.287	8.420	12570	10	1.687	14.028
12269	10	25.234	15.056	12341	8	7.038	22.571	12427	17	15.738	2.721	12499	13	18.670	8.178	12571	8	3.640	14.432
12270	9	2.645	16.930	12342*	31	8.010	22.868	12428	9	16.664	2.249	12500	10	21.965	8.768	12572	23	3.863	14.174
12271	8	3.950	16.605	12343	19	16.160	22.804	12429	27	17.470	2.146	12501	9	22.916	8.618	12573	8	7.070	14.114
12272	15	4.446	16.166	12344	8	18.942	22.216	12430	11	19.354	2.680	12502	22	24.035	8.699	12574	8	7.852	14.058
12273	18	4.550	16.014	12345	17	21.848	22.971	12431	13	21.872	2.907	12503	11	1.286	9.596	12575*	28	8.233	14.444
12274	9	7.038	16.202	12346	8	24.436	22.198	12432	8	6.966	3.184	12504	10	1.602	9.388	12576	10	8.432	14.489
12275	12	9.562	16.940	12347	8	0.552	23.834	12433	12	6.989	3.884	12505	10	8.534	9.641	12577	14	9.354	14.248
12276	13	10.075	16.863	12348	10	0.716	23.919	12434	8	9.200	3.874	12506	8	9.528	9.105	12578	11	10.682	14.028
12277	8	13.648	16.220	12349	8	7.088	23.488	12435	8	13.890	3.670	12507	8	14.493	9.892	12579	10	11.818	14.784
12278*	42	13.733	16.116	12350	8	7.464	23.706	12436*	38	16.382	3.320	12508	11	14.627	9.986	12580	8	17.937	14.437
12279	8	13.858	16.441	12351	10	9.408	23.636	12437	12	17.452	3.104	12509	10	14.730	9.402	12581	9	21.258	14.440
12280	14	13.948	16.650	12352	11	12.904	23.894	12438	23	23.680	3.346	12510	12	19.718	9.400	12582	8	0.300	15.066
12281	10	14.002	16.398	12353	10	13.676	23.460	12439	18	24.290	3.397	12511*	21	20.551	9.694	12583	10	0.355	15.890
12282	8	17.755	16.128	12354	8	17.690	23.891	12440	10	24.655	3.485	12512	10	23.503	9.868	12584	11	3.024	15.178
12283	11	24.447	16.103	12355	10	18.220	23.794	12441	8	2.364	4.756	12513	11	24.718	9.103	12585	8	8.344	15.634
12284	8	25.666	16.264	12356	8	20.078	23.248	12442	18	3.244	4.722	12514	11	24.844	9.771	12586	8	18.170	15.426
12285	9	6.484	17.160	12357*	30	10.547	24.016	12443	11	4.314	4.798	12515	10	25.578	9.524	12587	9	19.730	15.954
12286	9	6.724	17.580	12358	13	15.039	24.388	12444*	34	5.025	4.410	12516	12	2.486	10.023	12588	8	21.913	15.537
12287	9	11.464	17.162	12359	11	23.064	24.868	12445	9	13.888	4.696	12517	18	6.163	10.844	12589	9	24.436	15.456
12288	12	14.624	17.550	12360	8	25.267	24.226	12446	10	17.356	4.236	12518*	35	7.458	10.846	12590	16	25.583	15.720
12289	8	21.196	17.176	12361*	52	1.158	25.267	12447	8	17.785	4.097	12519	23	8.312	10.268	12591	13	2.250	16.230
12290	12	25.186	17.376	12362	12	2.650	25.357	12448	20	22.459	4.298	12520	8	8.827	10.641	12592	9	3.474	16.365
12291	8	25.274	17.266	12363	8	6.772	25.995	12449*	28	22.542	4.102	12521*	30	9.110	10.244	12593	12	4.054	16.944
12292	10	3.850	18.525	12364	8	15.206	25.838	12450*	33	22.646	4.614	12522	10	9.148	10.678	12594*	48	4.778	16.053
12293	11	8.732	18.482	12365*	31	19.712	25.248	12451*	29	24.302	4.600	12523	8	17.159	10.016	12595	15	5.984	16.664
12294	8	10.243	18.418					12452	10	1.515	5.466	12524	9	19.256	10.038	12596	18	7.306	16.550
12295	8	15.428	18.578					12453	14	2.852	5.264	12525*	44	20.873	10.282	12597	8	8.242	16.631
12296	14	15.570	18.776					12454	10	6.925	5.671	12526	9	22.565	10.186	12598	14	8.866	16.872
12297	8	15.950	18.466					12455	15	8.380	5.483	12527	8	23.259	10.591	12599	12	13.071	16.500
12298	12	21.833	18.928					12456	8	9.220	5.835	12528	13	23.872	10.886	12600	8	15.970	16.450
12299	12	21.928	18.193					12457	19	11.906	5.314	12529	24	24.004	10.808	12601*	25	16.499	16.596
12300*	27	22.724	18.460					12458	8	12.178	5.244	12530	8	2.479	11.532	12602	22	20.670	16.782
12301	8	23.314	18.628					12459	8	15.578	5.426	12531	8	3.522	11.068	12603	8	21.281	16.944
12302	13	7.227	19.184					12460	8	16.848	5.044	12532	8	7.408	11.716	12604	10	21.727	16.954
12303	20	14.230	19.649					12461	13	20.439	5.141	12533	9	8.994	11.696	12605	15	25.028	16.582
12304	20	17.608	19.380					12462	10	21.570	5.792	12534	8	11.282	11.378	12606	10	25.850	16.650
12305	8	17.823	19.901					12463	8	23.072	5.680	12535	8	12.663	11.690	12607	14	3.004	17.496
12306	8	20.210	19.908					12464	8	23.584	5.459	12536	8	13.436	11.116	12608	8	5.832	17.193
12307	9	22.225	19.284					12465	31	24.631	5.024	12537	16	19.952	11.581	12609	23	7.461	17.711
12308	8	24.449	19.794					12466	19	1.168	6.496	12538	29	22.835	11.210	12610*	48	7.950	17.314
12309	8	24.700	19.461					12467*	49	3.806	6.839	12539	10	23.778	11.790	12611	25	12.724	17.387
12310	9	24.808	19.779					12468	15	8.180	6.686	12540	8	3.230	12.960	12612	25	13.595	17.813
12311	11	24.810	19.776					12469	9	10.680	6.083	12541	10	7.722	12.353	12613	9	14.825	17.128
12312	8	4.794	20.409					12470	13	11.207	6.386	12542*	70	13.915	12.005	12614	23	14.968	17.018
12313	8	10.442	20.247					12471	14	15.186	6.154	12543	8	18.387	12.402	12615	10	16.826	17.335
12314	8	11.022																	

12623	12	25.346	17.068	12695	10	16.810	23.050	12768	8	5.626	1.515	12840	10	4.908	5.420	12912*	38	8.310	8.354
12624	40	0.554	18.610	12696	8	16.886	23.275	12769	23	5.792	1.118	12841	19	5.724	5.874	12913	14	10.440	8.436
12625*	34	5.757	18.752	12697	8	17.237	23.282	12770	8	12.458	1.630	12842	40	5.946	5.552	12914	23	10.848	8.695
12626	12	6.084	18.570	12698*	38	17.674	23.010	12771	24	14.712	1.062	12843	8	6.074	5.466	12915	9	11.844	8.996
12627	8	8.230	18.369	12699	15	20.880	23.349	12772	20	17.372	1.522	12844	10	8.102	5.754	12916	22	15.056	8.300
12628	12	8.246	18.408	12700	10	22.602	23.981	12773	32	17.552	1.294	12845	12	8.616	5.418	12917	18	15.977	8.002
12629	8	16.316	18.850	12701	19	24.431	23.024	12774	21	19.500	1.950	12846*	46	10.592	5.876	12918	8	19.439	8.826
12630	13	16.828	18.261	12702	10	3.174	24.344	12775	8	20.114	1.954	12847	8	11.950	5.818	12919	8	19.978	8.554
12631	8	17.576	18.281	12703	18	4.527	24.796	12776	11	20.280	1.503	12848	9	12.195	5.386	12920	15	2.172	9.256
12632	23	21.770	18.740	12704	22	10.100	24.388	12777	17	20.550	1.354	12849	8	12.716	5.230	12921	17	2.306	9.918
12633	11	23.865	18.320	12705	23	10.992	24.836	12778	8	22.596	1.700	12850	21	13.514	5.306	12922	18	3.038	9.664
12634	10	24.854	18.390	12706*	46	12.892	24.368	12779*	27	22.804	1.856	12851	8	14.841	5.576	12923	22	4.884	9.424
12635	19	25.402	18.954	12707	8	14.846	24.596	12780	9	2.168	2.026	12852	8	14.954	5.506	12924	20	5.088	9.744
12636	10	25.436	18.764	12708	8	14.849	24.983	12781	10	3.051	2.391	12853	16	15.732	5.520	12925	16	5.100	9.980
12637	9	0.068	19.435	12709	10	15.711	24.700	12782	9	3.718	2.066	12854*	47	18.334	5.953	12926	12	7.110	9.816
12638	8	2.304	19.915	12710	8	21.016	24.185	12783	13	6.369	2.300	12855	16	18.608	5.384	12927	22	8.696	9.625
12639	10	2.548	19.580	12711	9	24.090	24.288	12784	15	8.100	2.013	12856	8	19.312	5.851	12928	12	12.884	9.089
12640	9	2.644	19.900	12712	13	25.159	24.450	12785	20	9.039	2.827	12857	8	19.603	5.917	12929*	100	13.807	9.594
12641	10	2.659	19.900	12713	14	0.979	25.007	12786	30	12.732	2.779	12858	13	20.078	5.516	12930	20	13.940	9.734
12642	8	4.149	19.746	12714	8	4.036	25.494	12787	11	14.836	2.630	12859	9	22.189	5.500	12931	19	16.108	9.514
12643	8	6.680	19.607	12715	10	10.538	25.214	12788	8	16.276	2.417	12860	8	22.500	5.262	12932	13	17.265	9.190
12644*	47	7.348	19.292	12716	12	11.208	25.616	12789	12	17.904	2.686	12861	10	23.289	5.218	12933	26	17.650	9.728
12645	10	7.977	19.959	12717	10	12.350	25.582	12790	16	18.775	2.086	12862	36	24.982	5.592	12934	21	18.976	9.702
12646*	34	11.371	19.090	12718	8	12.856	25.228	12791	8	23.181	2.536	12863	10	25.844	5.861	12935	32	19.472	9.010
12647	21	16.400	19.978	12719	20	14.488	25.740	12792	15	23.326	2.615	12864	8	0.162	6.583	12936	9	20.534	9.582
12648	14	16.427	19.408	12720	14	16.800	25.498	12793	24	24.421	2.362	12865	12	0.206	6.316	12937	10	20.936	9.690
12649	8	16.534	19.459	12721*	38	20.390	25.294	12794	24	1.076	3.508	12866	9	0.294	6.850	12938	20	22.078	9.517
12650	15	17.536	19.940	12722	9	21.920	25.442	12795	23	1.691	3.556	12867	9	1.040	6.862	12939	15	22.335	9.864
12651	8	17.746	19.198	12723	8	22.261	25.229	12796	11	2.056	3.639	12868	11	4.705	6.938	12940	17	23.354	9.265
12652	8	20.749	19.799	12724	9	22.823	25.397	12797	8	2.960	3.982	12869	44	4.813	6.004	12941	8	25.880	9.180
12653	31	23.998	19.186	12725*	37	24.496	25.302	12798	23	3.487	3.560	12870	9	5.114	6.936	12942	10	0.032	10.356
12654	23	1.059	20.256					12799	16	3.626	3.506	12871	8	6.900	6.529	12943	10	0.966	10.033
12655	24	2.865	20.776					12800*	33	7.158	3.150	12872	11	7.590	6.764	12944	28	1.480	10.964
12656	8	3.180	20.100					12801	8	8.002	3.318	12873	12	8.650	6.242	12945	11	3.323	10.500
12657	11	3.698	20.298					12802	14	8.269	3.103	12874	14	8.708	6.117	12946	8	4.844	10.262
12658	8	8.824	20.088					12803	11	9.232	3.847	12875	12	9.727	6.836	12947	8	4.886	10.836
12659	8	8.986	20.055					12804	8	9.898	3.402	12876	15	10.294	6.732	12948	8	4.972	10.155
12660	9	9.874	20.827					12805*	36	13.850	3.416	12877	23	14.343	6.360	12949	12	5.730	10.779
12661	20	10.603	20.360					12806	22	14.060	3.000	12878	12	16.974	6.324	12950	15	9.714	10.840
12662	18	11.904	20.221					12807	11	14.904	3.546	12879*	58	18.033	6.190	12951	8	9.994	10.914
12663	29	12.385	20.578					12808	12	16.444	3.698	12880*	41	18.354	6.222	12952	9	10.573	10.532
12664	8	13.166	20.454					12809	8	17.304	3.566	12881	24	20.875	6.400	12953	8	13.676	10.980
12665	26	24.674	20.446					12810	37	0.054	4.788	12882	11	21.264	6.461	12954	27	15.072	10.076
12666	10	14.690	20.764					12811*	40	1.710	4.754	12883	15	23.025	6.448	12955	13	15.316	10.414
12667	26	17.736	20.267					12812*	65	3.904	4.178	12884	20	24.086	6.115	12956*	41	18.294	10.294
12668	8	18.113	20.471					12813	8	4.414	4.969	12885*	40	24.322	6.467	12957	8	18.927	10.926
12669	13	22.188	20.863					12814	14	5.266	4.188	12886	9	25.529	6.276	12958	15	19.102	10.742
12670	10	5.678	21.786					12815	8	5.464	4.406	12887	27	5.256	7.643	12959	13	20.985	10.733
12671	13	11.454	21.224					12816	13	8.773	4.613	12888	21	5.966	7.286	12960	29	22.616	10.104
12672	11	11.489	21.156					12817	25	9.572	4.182	12889	13	6.683	7.339	12961	11	24.778	10.150
12673	13	15.771	21.542					12818	10	9.624	4.986	12890*	39	7.152	7.260	12962	12	24.812	10.084
12674	8	15.950	21.516					12819	21	10.170	4.470	12891	8	8.110	7.614	12963	14	24.858	10.612
12675	11	16.234	21.318					12820	8	11.020	4.110	12892	40	9.836	7.436	12964	36	0.310	11.381
12676	12	21.420	21.400					12821	14	11.115	4.900	12893	22	9.846	7.720	12965	10	1.260	11.948
12677	30	25.984	21.237					12822	9	12.626	4.180	12894	16	11.540	7.916	12966	17	1.345	11.046
12678	8	2.314	22.325					12823	8	14.110	4.260	12895	12	11.842	7.151	12967	15	5.316	11.390
12679	8	3.157	22.661					12824	8	15.369	4.704	12896	21	12.840	7.994	12968	10	5.431	11.879
12680	8	4.216	22.405					12825	17	15.392	4.664	12897	11	13.130	7.032	12969	9	6.230	11.716
12681	16	10.534	22.849					12826	11	15.757	4.369	12898	22	13.925	7.414	12970	31	14.141	11.976
12682	11	12.832	22.360					12827	12	16.058	4.265	12899	8	14.130	7.435	12971	12	15.503	11.554
12683	10	21.738	22.164					12828	8	16.573	4.222	12900	19	15.216	7.254	12972	8	15.772	11.820
12684	11	22.028	22.932					12829	15	17.902	4.786	12901	11	16.560	7.922	12973	19	16.012	11.073
12685	8	1.395	23.116					12830	15	20.210	4.647	12902	12	17.453	7.989	12974	13	16.810	11.866
12686	11	4.550	13.300					12831	8	20.436	4.624	12903	8	17.474	7.128	12975	22	18.273	11.099
12687	11	5.849	23.505					12832	8	25.308	4.210	12904	8	18.965	7.854	12976	10	18.533	11.489
12688	10	6.236	23.853					12833	12	1.001	5.620	12905	22	19.352	7.418	12977	21	19.226	11.930
12689	14	6.410	23.235					12834	29	2.044	5.178	12906	38	22.226	7.056	12978	14	20.323	11.314
12690	20	7.078																	

12984	18	1-907	12-172	13056	9	11-456	15-652	13128	11	21-326	18-941	13200	13	6-274	22-960	13272	33	19-321	25-822
12985	12	3-134	12-301	13057	8	13-762	15-106	13129	30	24-112	18-756	13201	11	7-639	22-612	13273	8	20-074	25-585
12986	30	3-146	12-277	13058	8	13-844	15-227	13130	20	24-546	18-540	13202	19	7-816	22-577	13274	12	20-525	25-138
12987	12	5-863	12-112	13059	10	15-224	15-456	13131	28	24-594	18-108	13203	12	8-476	22-726	13275	8	24-066	25-598
12988	8	7-545	12-786	13060	24	16-719	15-154	13132	8	25-024	18-944	13204	12	9-800	22-912	13276	19	24-255	25-770
12989	17	9-862	12-046	13061	14	18-054	15-549	13133	31	1-556	19-344	13205	14	10-129	22-650	13277	13	24-985	25-316
12990	25	12-918	12-470	13062	8	18-426	15-553	13134	23	2-958	19-098	13206	9	10-314	22-566				
12991	10	13-930	12-836	13063	37	19-334	15-223	13135	9	4-379	19-234	13207	8	10-765	22-727				
12992	8	14-264	12-332	13064	8	20-793	15-540	13136	20	5-075	19-622	13208	13	11-954	22-686				
12993	8	15-105	12-348	13065	28	21-110	15-825	13137	9	5-158	19-152	13209	12	15-054	22-848				
12994	12	17-680	12-478	13066	8	23-267	15-119	13138*	39	11-680	19-407	13210*	27	15-082	22-451				
12995	8	18-358	12-257	13067	8	23-482	15-765	13139	17	12-272	19-290	13211	20	16-212	22-196				
12996	16	21-636	12-060	13068	17	25-086	15-296	13140	10	14-503	19-855	13212	27	17-184	22-937				
12997	10	21-700	12-400	13069	17	2-561	16-730	13141	8	15-339	19-160	13213	12	17-769	22-524				
12998	36	23-190	12-014	13070	14	3-384	16-781	13142	8	15-363	19-950	13214	23	18-908	22-444				
12999	8	2-326	13-989	13071	9	4-577	16-784	13143	18	15-986	19-384	13215	19	19-192	22-700				
13000	24	2-608	13-090	13072	9	5-303	16-528	13144	8	19-509	19-838	13216	20	21-422	22-244				
13001	8	4-522	13-522	13073	10	6-169	16-680	13145	21	19-943	19-300	13217	8	21-825	22-320				
13002	11	5-424	13-380	13074	10	8-386	16-018	13146	12	20-994	19-064	13218	21	22-466	22-025				
13003	10	6-498	13-180	13075	8	9-248	16-746	13147*	41	21-484	19-437	13219	8	22-560	22-216				
13004	10	6-736	13-960	13076	23	9-322	16-906	13148	8	21-934	19-962	13220	32	25-872	22-244				
13005	8	6-925	13-936	13077	20	10-214	16-990	13149	8	22-600	19-313	13221	25	2-031	23-175				
13006	12	8-444	13-387	13078	12	12-608	16-387	13150	26	23-388	19-726	13222	8	3-637	23-546				
13007	8	9-560	13-211	13079	11	13-353	16-646	13151	60	25-444	19-443	13223	8	4-946	23-023				
13008	8	9-835	13-040	13080	8	13-618	16-544	13152	9	2-265	20-596	13224	21	5-500	23-381				
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13013	8	12-388	13-001	13085	38	21-323	16-582	13157	8	7-506	20-994	13229	9	9-210	23-060				
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13017	11	17-681	13-934	13089	23	1-504	17-918	13161	27	8-456	20-937	13233	10	16-102	23-277				
13018*	44	19-212	13-303	13090	14	2-730	17-630	13162	35	10-786	20-710	13234	30	17-097	23-786				
13019	13	20-501	13-704	13091	14	2-974	17-210	13163	19	11-300	20-256	13235	9	17-285	23-809				
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13021	8	21-190	13-394	13093	8	8-582	17-800	13165	9	13-616	20-690	13237	8	17-444	23-265				
13022	12	24-050	13-390	13094	10	9-458	17-943	13166	12	17-048	20-139	13238	8	18-778	23-219				
13023	8	24-780	13-264	13095	8	12-342	17-104	13167	10	17-832	20-600	13239	13	19-422	23-570				
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13034*	65	10-916	14-626	13106	20	21-944	17-806	13178	20	4-340	21-766	13250	13	10-846	24-420				
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13053	8	7-720	15-436	13125	18	20-610	18-020												

13341	34	22.746	2.104	13413	28	18.256	8.210	13485	14	23.264	12.989	13557	18	8.086	18.956	13629	15	19.662	22.910
13342	18	23.058	2.411	13414	19	19.451	8.136	13486	13	23.662	12.323	13558	30	9.936	18.038	13630*	39	19.692	22.281
13343	24	23.384	2.098	13415	17	20.436	8.860	13487	19	24.482	12.774	13559	38	11.238	18.912	13631	19	21.385	22.335
13344	10	1.324	3.346	13416	36	25.026	8.076	13488	16	1.536	13.651	13560	13	12.452	18.106	13632	13	21.957	22.626
13345	26	5.203	3.004	13417	23	0.780	9.536	13489	14	2.637	13.592	13561	31	12.513	18.260	13633	27	22.424	22.373
13346*	52	5.935	3.952	13418	8	5.356	9.907	13490	17	2.995	13.389	13562	16	12.888	18.944	13634	21	22.526	22.382
13347	16	7.014	3.352	13419	8	5.456	9.152	13491	17	7.152	13.226	13563	11	13.015	18.402	13635	19	25.309	22.865
13348*	36	12.512	3.815	13420	14	5.728	9.976	13492	20	7.416	13.318	13564	10	16.618	18.426	13636	20	1.853	23.282
13349*	42	14.266	3.176	13421	36	6.290	9.193	13493	24	11.077	13.461	13565	25	19.515	18.087	13637	30	4.344	23.704
13350	11	17.306	3.924	13422	12	7.475	9.227	13494	16	11.916	13.434	13566	25	21.716	18.920	13638	20	6.186	23.444
13351	14	19.392	3.737	13423	19	10.766	9.672	13495	30	13.076	13.746	13567	9	23.864	18.667	13639	19	7.155	23.026
13352	26	19.636	3.664	13424	20	13.564	9.276	13496	14	15.572	13.484	13568	25	25.693	18.216	13640	23	7.746	23.964
13353	34	23.704	3.126	13425	17	15.618	9.694	13497	15	15.668	13.457	13569	11	0.173	19.595	13641	13	7.850	23.233
13354	8	25.013	3.482	13426	15	17.324	9.884	13498*	38	16.852	13.286	13570	20	0.964	19.996	13642	15	8.484	23.016
13355	10	2.664	4.452	13427	12	19.256	9.115	13499	13	18.390	13.454	13571	31	1.674	19.015	13643	22	11.598	23.827
13356	18	5.346	4.156	13428	10	22.385	9.894	13500	11	21.246	13.956	13572*	60	3.012	19.680	13644	12	12.656	23.390
13357	30	5.672	4.158	13429	30	22.662	9.145	13501	18	23.684	13.064	13573	17	3.856	19.223	13645	13	12.688	23.126
13358	16	6.875	4.675	13430	20	23.645	9.616	13502	19	25.904	13.694	13574	18	4.207	19.616	13646	14	12.886	23.377
13359	12	14.029	4.412	13431	9	24.656	9.838	13503	8	0.922	14.417	13575	13	5.196	19.746	13647*	26	13.537	23.452
13360	11	16.102	4.762	13432	19	24.913	9.553	13504	29	1.384	14.634	13576*	38	6.467	19.068	13648	21	14.346	23.470
13361	22	17.246	4.136	13433	12	25.537	9.464	13505	14	2.008	14.556	13577	15	6.824	19.567	13649	13	14.418	23.516
13362	30	20.642	4.386	13434	35	0.053	10.384	13506	13	2.055	14.416	13578	14	8.106	19.939	13650	13	17.808	23.176
13363	15	22.333	4.104	13435	12	1.218	10.368	13507	16	5.588	14.955	13579	27	11.507	19.767	13651	17	17.866	23.911
13364	14	25.459	4.687	13436	12	2.217	10.398	13508	16	5.861	14.434	13580	28	12.534	19.844	13652	18	20.174	23.933
13365	38	2.352	5.836	13437	14	2.254	10.333	13509*	36	13.936	14.488	13581	23	12.694	19.244	13653	19	20.900	23.024
13366	13	9.084	5.892	13438	19	2.306	10.859	13510	31	14.366	14.664	13582	8	12.954	19.056	13654*	56	21.562	23.976
13367	19	10.123	5.354	13439	18	5.514	10.264	13511*	65	16.164	14.223	13583	13	13.132	19.186	13655	20	22.714	23.193
13368	14	21.096	5.136	13440	25	5.554	10.836	13512	28	18.752	14.524	13584	15	15.651	19.236	13656	14	5.056	24.005
13369*	52	22.644	5.607	13441	20	6.131	10.924	13513	13	19.544	14.979	13585	20	18.862	19.092	13657	14	7.167	24.152
13370	21	24.166	5.096	13442	16	6.876	10.508	13514*	76	20.612	14.843	13586*	39	19.799	19.664	13658	21	10.332	24.736
13371	18	0.413	6.724	13443	22	7.342	10.404	13515	17	21.173	14.586	13587	16	22.906	19.810	13659	14	13.776	24.504
13372	22	1.466	6.374	13444	21	7.406	10.676	13516	13	22.111	14.467	13588	19	23.396	19.294	13660	10	13.940	24.943
13373*	36	1.706	6.724	13445	19	8.711	10.832	13517	10	22.416	14.214	13589	12	24.824	19.782	13661	14	14.834	24.699
13374	13	2.914	6.515	13446	16	8.868	10.786	13518	21	2.600	15.544	13590	24	25.126	19.355	13662	28	15.465	24.484
13375	18	3.224	6.094	13447	21	12.006	10.496	13519	16	3.856	15.776	13591	22	24.144	19.497	13663*	32	17.042	24.394
13376	14	5.724	6.906	13448*	52	14.326	10.346	13520	14	4.916	15.007	13592	18	1.643	20.766	13664*	36	17.684	24.416
13377	28	6.116	6.658	13449	32	15.070	10.855	13521	14	11.354	15.931	13593	10	2.694	20.504	13665	21	18.013	24.088
13378	10	8.056	6.706	13450	20	15.918	10.664	13522*	39	16.195	15.649	13594	12	4.396	20.724	13666	15	20.036	24.846
13379	23	9.498	6.106	13451	12	16.477	10.668	13523	28	17.912	15.193	13595	28	4.693	20.340	13667	15	23.366	24.710
13380	13	9.766	6.675	13452	15	17.206	10.896	13524	9	19.943	15.464	13596	33	8.284	20.526	13668	12	23.436	24.031
13381	19	10.480	6.620	13453	22	17.684	10.148	13525	18	21.746	15.427	13597	18	8.337	20.664	13669	30	23.468	24.858
13382*	80	10.596	6.779	13454*	37	23.216	10.826	13526	12	21.935	15.190	13598	11	9.594	20.172	13670*	46	24.164	24.404
13383	22	11.416	6.044	13455	20	23.822	10.458	13527	18	23.756	15.972	13599	16	10.252	20.407	13671	17	2.540	25.056
13384*	33	15.244	6.654	13456	10	24.418	10.294	13528	20	24.827	15.458	13600	11	10.815	20.704	13672	22	2.646	25.556
13385	9	18.459	6.534	13457	21	25.430	10.985	13529	17	25.231	15.514	13601	17	13.488	20.095	13673	21	8.218	25.521
13386	28	23.306	6.466	13458	16	25.714	10.402	13530	23	1.568	16.476	13602*	38	13.901	20.735	13674	25	9.133	25.144
13387	8	23.754	6.096	13459	36	25.726	10.306	13531	20	1.874	16.805	13603	19	17.058	20.046	13675	30	10.964	25.421
13388	11	23.888	6.904	13460*	56	1.100	11.840	13532	18	7.067	16.356	13604	16	17.558	20.424	13676	36	11.341	25.975
13389	36	23.967	6.430	13461	20	3.984	11.682	13533	11	7.082	16.662	13605	16	18.305	20.655	13677	16	17.520	25.094
13390	13	24.013	6.150	13462	9	5.058	11.180	13534	16	11.496	16.024	13606	22	18.400	20.306	13678*	46	18.316	25.196
13391	9	24.646	6.402	13463	23	5.385	11.456	13535	29	13.994	16.606	13607	22	19.705	20.100	13679	36	21.934	25.693
13392	18	24.760	6.197	13464	10	8.218	11.242	13536	23	16.632	16.560	13608	11	22.883	20.864	13680	36	22.684	25.634
13393*	39	0.600	7.526	13465	22	9.434	11.826	13537	12	17.616	16.333	13609	32	24.396	20.876	13681	34	22.815	25.874
13394	8	7.898	7.356	13466*	32	13.474	11.282	13538	17	18.614	16.196	13610	19	2.725	21.522				
13395	23	9.284	7.296	13467	13	14.306	11.826	13539	16	21.946	16.014	13611	32	3.057	21.606				
13396	14	9.606	7.806	13468	22	14.476	11.682	13540	13	24.448	16.966	13612	15	6.605	21.696				
13397*	44	10.848	7.357	13469*	72	14.501	11.804	13541	12	24.722	16.106	13613	20	8.165	21.727				
13398	16	13.773	7.342	13470	34	18.918	11.152	13542	13	25.144	16.753	13614	18	14.124	21.484				
13399	36	13.886	7.735	13471*	240	19.143	11.714	13543	24	25.994	16.910	13615	27	18.810	21.006				
13400	30	14.634	7.754	13472	19	22.046	11.704	13544*	36	2.809	17.750	13616	18	22.244	21.756				
13401	14	18.834	7.658	13473	14	24.084	11.244	13545*	56	6.949	17.324	13617	22	0.076	22.306				
13402	12	19.234	7.691	13474	18	25.886	11.993	13546	15	7.568	17.278	13618	10	0.175	22.497				
13403	37	20.552	7.376	13475	36	0.656	12.286	13547	22	7.624	17.626	13619	16	1.438	22.166				
13404	11	21.200	7.836	13476	32	6.376	1												

R.A. 6^h 24^m

Plate 436 ; 1915 Jan. 11.

Provisional Constants.

A	B	C
-.01749	+ .00852	-.1059

D	E	F
00823	—01779	+0118

$$Maq.=17.3-1.10\sqrt{d}$$

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13705	8	6-788	0-673
13706	25	8-026	0-038
13707*	78	8-545	0-216
13708	16	10-377	0-800
13709	8	12-650	0-493
13710	8	13-551	0-840
13711	18	14-968	0-764
13712*	95	16-018	0-219
13713	10	22-096	0-684
13714	10	22-720	0-520
13715	8	2-162	1-749
13716	41	3-885	1-026
13717	8	6-734	1-798
13718	8	9-678	1-473
13719	9	11-434	1-040
13720	8	13-514	1-266
13721	10	17-782	1-727
13722	12	17-886	1-793
13723	8	18-460	1-896
13724	12	18-754	1-358
13725	11	19-545	1-450
13726	33	23-580	1-164
13727	28	0-260	2-104
13728	8	0-578	2-412
13729	12	0-900	2-095
13730	8	1-104	2-348
13731	10	3-636	2-836
13732	10	5-440	2-356
13733	12	5-791	2-524
13734	40	9-518	2-618
13735	9	12-372	2-334
13736	25	15-308	2-148
13737	8	16-516	2-860
13738	11	17-235	2-907
13739	9	18-492	2-946
13740	13	19-156	2-228
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13744	12	25-734	2-017
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13783	8	11-491	5-835
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13785*	89	13-269	5-627
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13815	8	24-015	6-716
13816	8	24-123	6-805
13817	25	24-334	6-129
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13819	11	3-508	7-772
13820	14	6-496	7-004
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13822	51	8-550	7-851
13823	10	9-879	7-444
13824	8	10-112	7-714
13825*	38	11-212	7-594
13826	8	11-464	7-500
13827	28	12-599	7-697
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13844	8	15-501	8-880
13845	12	18-984	8-858
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13848	8	23-424	8-106
13849	77	25-043	8-321
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13853	8	5-715	9-222
13854	8	9-158	9-174
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13857*	66	15-402	9-680
13858	32	15-472	9-651
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13862	12	19-816	9-222
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13865	14	24-482	9-136
13866	11	24-864	9-136
13867	9	25-152	9-790
13868*	43	0-837	10-820
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13870	8	2-035	10-274
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13872	13	3-330	10-364
13873	49	3-336	10-265
13874	29	6-520	10-504
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13876	8	7-700	10-990
13877	34	10-142	10-600
13878	8	10-163	10-361
13879	10	10-294	10-798
13880	17	10-752	10-355
13881	8	13-892	10-682
13882	8	14-118	10-835
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13885	10	19-026	10-721
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13894	10	4-872	11-672
13895	36	5-350	11-172
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13897	37	7-870	11-151
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13899*	53	8-388	11-901
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13916*	55	24-064	12-586
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13932	8	25-409	13-534
13933	8	0-084	14-220
13934	11	2-866	14-090
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13941	11	16-761	14-548
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13943	47	19-340	14-317
13944	8	19-392	14-780
13945*	49	19-747	14-014
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13947	8	19-886	14-564
13948	8	20-083	14-414
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13968	24	16-639	15-938
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13971	12	21-045	15-764
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13988	15	19-608	16-756
13989	8	20-216	16-950
13990	12	21-091	16-504
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13995*	51	3-924	17-825
13996	23	4-587	17-311
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13999	37	7-212	17-648
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14002	8	11-028	17-530
14003	26	12-154	17-654
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14007*	57	16-848	17-841
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14011	8	17-614	17-564
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14013	8	21-667	17-719
14014	8	21-836	17-582
14015	32	22-744	17-858
14016	8	1-582	18-653
14017	37	3-408	18-178
14018	9	4-016	18-364
14019	8	4-630	18-384
14020	52	5-714	18-627
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14024	11	10-989	18-186
14025	8	11-612	18-242
14026	28	12-752	18-850
14027	18	16-463	18-868
14028	8	17-380	18-050
14029	9	17-720	18-708
14030	27	19-300	18-166
14031	36	19-406	18-182
14032	13	22-916	18-378
14033	21	23-432	18-740
14034	8	23-923	18-188
14035	18	24-101	18-913
14036	12	24-580	18-072
14037	37	24-888	18-286
14038	9	25-246	18-114
14039	8	0-645	19-805
14040	18	1-126	19-284
14041	8	2-556	19-754
14042	15	2-859	19-324
14043	21	2-876	19-470

14044*	59	5.612	19.642	14116	15	1.272	24.846	14176	17	14.396	1.856	14248	37	1.796	6.355	14320	17	16.972	9.440
14045	38	6.113	19.123	14117*	60	1.957	24.382	14177	9	15.781	1.769	14249	14	6.002	6.242	14321	9	20.989	9.345
14046	13	12.209	19.526	14118	8	5.462	24.794	14178	8	19.383	1.732	14250	9	6.002	6.432	14322	11	21.242	9.460
14047	18	12.996	19.690	14119	8	8.390	24.711	14179	23	19.824	1.006	14251	8	7.860	6.630	14323	13	23.126	9.626
14048	16	14.151	19.052	14120*	54	10.132	24.097	14180	27	23.284	1.316	14252	8	8.098	6.479	14324	11	25.092	9.864
14049	36	15.177	19.378	14121*	64	11.801	24.912	14181	10	25.094	1.656	14253	16	9.276	6.315	14325	9	1.716	10.530
14050	40	16.209	19.378	14122	49	14.396	24.350	14182	14	3.156	2.226	14254	8	13.670	6.161	14326	12	2.650	10.007
14051	26	16.644	19.350	14123	40	17.804	24.701	14183	8	4.775	2.742	14255	19	14.657	6.402	14327	13	2.660	10.260
14052	9	17.072	19.300	14124	12	18.712	24.198	14184	13	7.776	2.584	14256	22	14.985	6.732	14328	11	4.044	10.366
14053	35	17.462	19.986	14125	44	18.744	24.530	14185	9	11.254	2.738	14257	25	15.552	6.164	14329	8	4.243	10.704
14054	8	17.478	19.745	14126	33	19.819	24.452	14186	13	11.322	2.504	14258	8	17.255	6.419	14330	38	4.698	10.460
14055	9	17.860	19.708	14127	8	20.872	24.110	14187	8	11.863	2.642	14259	10	18.064	6.329	14331	31	5.234	10.327
14056	13	18.690	19.058	14128	24	0.497	25.632	14188*	55	13.574	2.720	14260	42	18.841	6.286	14332	11	6.628	10.009
14057	18	19.740	19.788	14129	13	0.634	25.870	14189	10	13.926	2.474	14261	10	19.100	6.106	14333	9	7.260	10.227
14058	12	20.470	19.171	14130	40	4.126	25.170	14190	42	13.940	2.511	14262	10	20.282	6.424	14334	14	8.687	10.110
14059	8	20.802	19.326	14131	8	6.324	25.426	14191	10	16.568	2.866	14263*	31	20.974	6.094	14335	26	9.640	10.470
14060	21	23.462	19.928	14132	11	9.432	25.795	14192*	73	16.960	2.513	14264	8	21.089	6.105	14336	8	10.139	10.886
14061	34	2.145	20.854	14133	12	9.456	25.549	14193	8	17.328	2.616	14265*	54	21.167	6.246	14337	10	11.034	10.620
14062	8	2.614	20.451	14134	10	10.580	25.984	14194	12	19.042	2.116	14266	24	22.257	6.846	14338	28	11.244	10.512
14063	32	7.243	20.414	14135	14	11.006	25.152	14195	10	20.330	2.198	14267	9	23.029	6.842	14339	20	18.790	10.655
14064	24	11.116	20.524	14136	8	13.162	25.321	14196	41	21.638	2.184	14268	12	23.498	6.181	14340*	50	19.079	10.846
14065	8	12.419	20.020	14137	8	13.673	25.538	14197	11	23.490	2.228	14269	16	25.970	6.004	14341	9	19.455	10.870
14066	10	19.602	20.610	14138	8	21.872	25.582	14198	14	24.092	2.215	14270*	51	1.230	7.626	14342	18	19.770	10.528
14067	8	20.558	20.262					14199	11	25.454	2.914	14271	11	1.277	7.062	14343	9	20.142	10.640
14068	18	21.757	20.314					14200	17	2.665	3.193	14272	10	1.590	7.038	14344	10	21.860	10.872
14069	30	22.753	20.527					14201	14	6.360	3.420	14273	13	4.696	7.492	14345	22	1.005	11.184
14070	12	22.787	20.024					14202	8	6.932	3.762	14274	25	5.322	7.466	14346	24	3.056	11.292
14071	14	0.008	21.762					14203	45	7.732	3.556	14275	10	7.737	7.132	14347	9	3.616	11.756
14072	30	4.631	21.838					14204	18	9.558	3.012	14276	8	9.800	7.785	14348	26	6.340	11.934
14073	8	5.880	21.150					14205	8	9.579	3.690	14277	8	10.548	7.141	14349	8	7.939	11.048
14074	12	11.558	21.040					14206	13	9.876	3.869	14278	15	12.235	7.841	14350	25	13.265	11.190
14075	9	11.961	21.631					14207	8	11.455	3.852	14279	14	14.310	7.375	14351*	54	15.228	11.081
14076	24	17.255	21.529					14208	12	11.550	3.472	14280	9	15.578	7.360	14352	10	17.182	11.420
14077	8	17.728	21.805					14209	23	14.584	3.843	14281	10	16.618	7.318	14353	14	18.670	11.758
14078	12	17.810	21.068					14210	11	15.720	3.036	14282	43	20.049	7.054	14354*	49	19.004	11.290
14079	8	23.450	21.925					14211	12	16.116	3.704	14283	11	25.015	7.448	14355	16	19.148	11.646
14080	8	23.492	21.528					14212	14	17.252	3.750	14284	15	25.211	7.545	14356	20	19.714	11.888
14081	8	25.226	21.424					14213	8	18.179	3.960	14285	8	0.188	8.074	14357	9	20.215	11.378
14082	24	0.194	22.374					14214	8	19.134	3.336	14286	13	0.902	8.346	14358	10	20.533	11.674
14083	11	0.296	22.384					14215	10	19.262	3.681	14287*	72	2.519	8.538	14359	12	21.069	21.900
14084	12	3.085	22.832					14216	12	19.744	3.970	14288	12	2.958	8.142	14360	34	22.538	11.180
14085	38	4.702	22.176					14217	24	20.538	3.890	14289	9	3.370	8.488	14361	8	24.572	11.913
14086	21	5.750	22.202					14218*	41	20.815	3.536	14290	13	4.190	8.470	14362	67	0.184	12.756
14087	8	6.338	22.754					14219*	80	22.884	3.262	14291	36	6.992	8.850	14363	25	0.614	12.348
14088*	48	8.425	22.794					14220	25	23.270	3.762	14292	9	9.750	8.596	14364	11	0.780	12.834
14089	14	9.349	22.334					14221	10	24.772	3.726	14293	32	11.610	8.286	14365	9	1.351	12.508
14090	18	9.426	22.396					14222	13	4.648	4.118	14294	11	11.972	8.774	14366*	52	1.588	12.816
14091	8	10.590	22.504					14223*	59	7.420	4.364	14295	23	14.780	8.999	14367	13	3.379	12.674
14092	14	13.527	22.640					14224	9	8.028	4.689	14296	23	14.947	8.812	14368	16	3.499	12.954
14093	21	13.840	22.538					14225	23	11.555	4.265	14297	26	15.630	8.937	14369	18	3.500	12.166
14094*	58	14.908	22.784					14226	13	16.766	4.872	14298	18	18.236	8.974	14370*	53	4.284	12.830
14095	54	16.128	22.997					14227	26	16.975	4.544	14299	11	18.346	8.180	14371	8	6.242	12.212
14096	8	18.176	22.996					14228	21	19.596	4.164	14300	8	19.750	8.484	14372	10	6.649	12.218
14097	12	20.694	22.692					14229	12	20.668	4.514	14301	10	20.174	8.620	14373	8	6.768	12.128
14098	8	20.777	22.700					14230	8	23.930	4.418	14302	10	20.824	8.216	14374	15	7.522	12.484
14099	8	24.684	22.368					14231	8	25.370	4.785	14303	24	24.284	8.440	14375*	51	8.450	12.158
14100	20	0.496	23.188					14232	8	0.698	5.118	14304	51	25.362	8.956	14376	12	9.076	12.273
14101	8	4.282	23.284					14233	10	2.141	5.704	14305	10	1.810	9.612	14377	22	11.915	12.021
14102	8	4.348	23.402					14234	8	2.331	5.430	14306	21	1.972	9.364	14378	38	13.087	12.390
14103	11	4.445	23.644					14235*	44	3.604	5.908	14307	14	2.352	9.358	14379	8	13.333	12.877
14104*	56	6.580	23.563					14236	11	5.141	5.444	14308	10	4.696	9.192	14380	13	14.218	12.246
14105	19	6.665	23.304					14237	10	5.534	5.481	14309	10	4.869	9.620	14381	32	15.050	12.210
14106	8	8.320	23.314					14238	15	10.766	5.264	14310	14	8.752	9.604	14382	12	17.661	12.526
14107	13	9.534	23.544					14239	34	13.522	5.186	14311	35	9.474	9.076	14383	23	18.594	12.390
14108	8	12.326	23.731					14240	30	14.642	5.188	14312	21	9.676	9.926	14384	10	18.642	12.670
14109	12	12.888	23.929					14241	8	16.778	5.820	14313	8	10.080	9.133	14385	10	18.648	12.780
14110	40	17.200	23.190					14242	8	19.724	5.274	14314	17	10.270	9.240	14386	12	20.028	12.284
14111	10	19.925	23.276					14243	8	22.574	5.493	14315	20	10.314	9.415	14387	11	21.284	12.976

14392	25	6.016	13.064	14464	8	3.463	17.922	14536	12	14.184	20.153	14608	19	25.416	23.074	14705	22	13.386	0.946
14393	23	7.962	13.975	14465	16	5.040	17.823	14537	8	15.066	20.167	14609	8	25.900	23.680	14706	22	13.446	0.586
14394	33	8.066	13.922	14466	8	6.437	17.725	14538	24	16.263	20.708	14610	11	0.150	24.036	14707	59	14.244	0.156
14395	10	9.021	13.970	14467	10	8.561	17.812	14539	12	18.687	20.235	14611	8	1.050	24.871	14708	13	14.646	0.054
14396	29	13.351	13.036	14468*	42	10.703	17.622	14540	12	20.060	20.492	14612	10	1.400	24.282	14709	32	17.748	0.196
14397	10	15.440	13.914	14469	8	11.374	17.582	14541	10	21.022	20.658	14613	13	3.820	24.411	14710	14	18.055	0.188
14398	10	16.985	13.400	14470	12	12.750	17.415	14542	8	21.423	20.637	14614	8	7.367	24.220	14711*	38	18.479	0.138
14399	27	19.808	13.863	14471	45	13.160	17.316	14543	8	23.743	20.380	14615	32	8.050	24.029	14712	30	24.286	0.634
14400*	53	20.193	13.824	14472	8	13.350	17.956	14544	8	24.074	20.495	14616	8	8.425	24.012	14713	36	0.785	1.510
14401	13	20.315	13.974	14473	8	13.463	17.227	14545	12	24.123	20.912	14617	27	9.004	24.909	14714	20	2.595	1.835
14402	10	21.179	13.940	14474	17	14.858	17.053	14546	9	24.821	20.410	14618	10	9.714	24.378	14715	14	3.904	1.614
14403	11	22.928	13.885	14475	17	15.157	17.750	14547	12	1.114	21.766	14619	9	10.360	24.595	14716*	44	9.997	1.694
14404	22	25.175	13.650	14476	10	16.208	17.618	14548	9	2.850	21.648	14620	21	10.400	24.449	14717	18	10.194	1.894
14405	17	25.214	13.632	14477	28	16.240	17.798	14549	29	6.662	21.038	14621	13	10.520	24.130	14718	24	16.034	1.156
14406	8	3.792	14.645	14478	11	18.328	17.982	14550	10	6.830	21.123	14622	41	10.730	24.879	14719*	98	16.176	1.836
14407	20	4.389	14.288	14479	10	18.767	17.815	14551*	70	7.628	21.430	14623	20	11.910	24.008	14720	30	18.072	1.526
14408	10	5.698	14.863	14480	22	19.463	17.018	14552	16	8.900	21.870	14624	10	12.775	24.119	14721	20	21.174	1.064
14409	16	5.956	14.299	14481	10	19.930	17.850	14553	8	9.876	21.727	14625	29	12.860	24.832	14722	42	21.736	1.714
14410	9	7.233	14.308	14482	11	20.503	17.358	14554	12	12.515	21.590	14626	25	12.935	24.540	14723	13	23.756	1.304
14411	14	9.148	14.300	14483	27	21.364	17.888	14555	14	13.044	21.054	14627	34	13.085	24.244	14724	36	24.066	1.156
14412	9	11.000	14.926	14484	14	22.283	17.656	14556	20	13.262	21.712	14628	29	13.476	24.467	14725	24	24.224	1.784
14413	14	11.113	14.654	14485	24	22.782	17.854	14557	20	13.620	21.572	14629	10	13.548	24.612	14726	32	2.496	2.402
14414	14	15.002	14.092	14486	20	25.778	17.665	14558	11	14.947	21.330	14630	22	13.873	24.323	14727	28	4.711	2.716
14415	8	15.454	14.546	14487	28	0.324	18.102	14559	21	16.060	21.898	14631	8	13.885	24.332	14728	15	6.298	2.387
14416	11	16.885	14.189	14488	15	0.504	18.623	14560	10	19.337	21.992	14632	8	16.706	24.194	14729	11	7.143	2.556
14417*	115	16.932	14.476	14489	26	1.024	18.974	14561	14	21.788	21.067	14633	8	18.984	24.724	14730	10	7.973	2.256
14418	13	17.998	14.313	14490	8	1.052	18.963	14562	8	24.532	21.218	14634	8	19.814	24.442	14731	26	8.136	2.548
14419	20	18.428	14.044	14491	8	1.510	18.418	14563	16	25.874	21.202	14635	17	20.069	24.666	14732	20	9.294	2.664
14420	45	21.073	14.550	14492	15	2.164	18.298	14564	8	1.488	22.023	14636	27	20.764	24.922	14733	14	9.700	2.545
14421	11	22.916	14.876	14493	32	2.474	18.509	14565	10	2.318	22.590	14637	12	22.010	24.725	14734	19	11.489	2.759
14422	20	23.362	14.500	14494	16	2.834	18.332	14566	19	4.928	22.466	14638*	71	23.677	24.520	14735	30	12.328	2.956
14423	10	24.275	14.306	14495	26	4.388	18.550	14567	8	5.280	22.210	14639	8	24.596	24.786	14736	8	14.856	2.954
14424	40	0.622	15.942	14496	10	7.046	18.260	14568	34	6.127	22.874	14640	10	2.418	25.595	14737	14	16.660	2.177
14425	21	0.866	15.214	14497	8	7.059	18.322	14569	8	10.809	22.246	14641	11	3.239	25.560	14738	36	16.909	2.932
14426	8	2.592	15.101	14498	20	7.108	18.604	14570	38	11.039	22.879	14642	11	5.501	25.114	14739	22	19.798	2.242
14427	8	3.582	15.700	14499	8	7.560	18.119	14571	15	11.234	22.798	14643	11	5.965	25.394	14740*	78	23.184	2.378
14428	28	3.685	15.124	14500	23	13.020	18.836	14572*	29	15.202	22.709	14644	9	6.185	25.445	14741	20	23.474	2.358
14429	11	8.326	15.788	14501	8	14.712	18.667	14573	8	16.688	22.948	14645	27	7.056	25.066	14742	32	23.541	2.376
14430*	53	11.272	15.424	14502*	47	15.197	18.002	14574	33	16.782	22.929	14646	22	7.808	25.036	14743	31	24.669	2.396
14431	9	11.626	15.847	14503	15	21.571	18.788	14575	27	16.790	22.996	14647	12	8.219	25.708	14744	50	25.046	2.746
14432	8	12.623	15.754	14504	8	22.424	18.346	14576	8	16.800	22.951	14648	8	11.911	25.981	14745	79	0.392	3.462
14433*	55	12.799	15.870	14505	16	24.166	18.218	14577	10	17.020	22.240	14649	9	11.933	25.996	14746	32	0.789	3.956
14434	10	14.280	15.472	14506	29	24.592	18.318	14578	10	17.558	22.662	14650	19	14.368	25.503	14747	22	2.974	3.094
14435	13	14.657	15.470	14507	19	1.692	19.142	14579	14	21.240	22.050	14651	33	15.082	25.451	14748	36	4.346	3.110
14436	8	14.659	15.991	14508	9	4.890	19.832	14580	32	21.773	22.891	14652	8	17.189	25.940	14749	11	7.103	3.158
14437	8	17.674	15.771	14509	8	5.940	19.240	14581	15	21.922	22.155	14653	8	20.576	25.576	14750	16	10.182	3.084
14438	30	18.477	15.284	14510	9	7.470	19.139	14582	8	23.884	22.622	14654	10	22.144	25.606	14751	19	18.465	3.650
14439*	44	18.924	15.900	14511	12	8.058	19.910	14583	9	24.750	22.092	14655*	63	22.958	25.394	14752	36	25.656	3.888
14440	29	18.937	15.911	14512	23	8.093	19.072	14584	13	25.381	22.999	14656	8	25.915	25.652	14753	30	4.405	4.902
14441	30	20.782	15.672	14513	8	8.644	19.683	14585	8	1.248	23.447					14754*	36	6.658	4.245
14442	8	24.200	15.737	14514	11	9.230	19.336	14586	42	4.732	23.660					14755	30	6.850	4.784
14443	20	25.997	15.365	14515	8	10.125	19.610	14587	10	4.806	23.636					14756	36	7.964	4.254
14444	8	0.314	16.964	14516*	63	12.740	19.549	14588	10	5.870	23.896					14757	24	11.660	4.384
14445	27	0.534	16.780	14517*	95	12.800	19.540	14589	24	8.146	23.857					14758*	60	13.805	4.886
14446	17	2.239	16.060	14518	12	13.875	19.550	14590	14	8.670	23.707					14759	8	16.070	4.373
14447	14	3.028	16.457	14519	21	15.500	19.942	14591	14	8.710	23.506					14760	24	16.076	4.779
14448	8	3.182	16.080	14520	13	17.920	19.134	14592	14	9.158	23.141					14761	32	17.836	4.646
14449	18	4.438	16.580	14521	10	18.310	19.744	14593	23	9.983	23.293					14762	36	18.944	4.864
14450	14	4.660	16.516	14522	8	20.500	19.419	14594	9	12.982	23.391					14763	16	21.936	4.126
14451	21	12.176	16.868	14523	9	20.620	19.487	14595	11	14.083	23.534					14764	34	1.016	5.716
14452	16	12.730	16.066	14524	8	25.587	19.385	14596	8	15.142	23.242					14765	36	6.536	5.427
14453	20	16.530	16.118	14525	26	0.364	20.771	14597	14	15.255	23.904					14766	23	6.684	5.596
14454	10	17.614	16.797	14526	13	0.394	20.266	14598	28	16.466	23.656					14767	20	7.774	5.011
14455	10	17.840	16.168	14527	8	0.733	20.282	14599	8	16.682	23.380					14768	13	10.529	5.904
14456	16	18.2																	

14777	32	21.765	5.838	14849	11	9.296	11.822	14921	12	4.516	15.714	14993	21	24.304	19.452	15065	18	11.154	23.460
14778	32	23.892	5.732	14850	32	10.334	11.744	14922	20	6.532	15.268	14994	36	24.598	19.457	15066	12	12.516	23.927
14779	12	25.726	5.062	14851	14	15.281	11.372	14923*	58	7.078	15.054	14995	56	24.762	19.463	15067*	88	13.826	23.988
14780	31	3.504	6.180	14852	25	19.028	11.914	14924	19	7.394	15.274	14996	36	25.886	19.304	15068	13	15.022	23.747
14781*	42	4.658	6.214	14853	21	20.662	11.373	14925	17	7.630	15.128	14997	16	2.447	20.597	15069	28	15.094	23.677
14782	16	5.200	6.956	14854	25	21.478	11.327	14926	13	9.473	15.779	14998	20	3.814	20.364	15070*	35	15.714	23.984
14783	10	8.339	6.631	14855	34	22.248	11.685	14927	15	10.688	15.934	14999	20	3.924	20.422	15071	34	20.664	23.456
14784	16	17.254	6.734	14856	32	23.484	11.217	14928	31	11.031	15.354	15000	15	6.443	20.426	15072	18	22.364	23.508
14785	36	20.266	6.338	14857	25	23.766	11.696	14929	22	11.104	15.638	15001	17	6.913	20.886	15073	34	22.518	23.796
14786	37	20.338	6.364	14858	10	1.300	12.253	14930	9	12.424	15.597	15002	36	9.218	20.304	15074*	68	1.330	24.713
14787	24	21.252	6.266	14859	15	2.474	12.628	14931	16	13.005	15.208	15003	13	10.300	20.540	15075	13	2.258	24.972
14788	36	21.691	6.690	14860	16	2.850	12.226	14932	15	13.833	15.715	15004	10	10.851	20.629	15076	20	5.873	24.813
14789	14	22.993	6.210	14861	21	4.706	12.580	14933	18	14.078	15.648	15005	18	10.984	20.794	15077*	39	6.235	24.284
14790	16	2.557	7.635	14862	13	5.155	12.078	14934	17	22.312	15.798	15006	17	10.996	20.252	15078*	34	6.940	24.060
14791	20	2.756	7.724	14863	24	6.100	12.956	14935	28	23.534	15.384	15007	15	11.779	20.667	15079*	52	7.216	24.656
14792	22	4.422	7.162	14864	16	8.906	12.657	14936	37	0.995	16.844	15008	27	12.113	20.602	15080	10	7.405	24.292
14793	23	5.786	7.556	14865	18	9.292	12.096	14937	17	3.480	16.902	15009	8	12.714	20.284	15081	24	9.936	24.906
14794*	40	9.028	7.700	14866	21	9.557	12.116	14938	14	6.536	16.260	15010	20	13.095	20.029	15082	11	10.132	24.178
14795	36	10.432	7.329	14867	17	10.034	12.656	14939	17	10.114	16.955	15011	14	13.385	20.726	15083	17	13.290	24.724
14796	11	13.382	7.583	14868*	54	13.632	12.914	14940	12	10.666	16.738	15012	19	15.514	20.774	15084*	36	13.954	24.596
14797	18	18.136	7.110	14869	10	14.145	12.883	14941*	60	12.158	16.294	15013*	38	18.711	20.357	15085	19	14.360	24.328
14798	16	18.856	7.067	14870	23	14.656	12.038	14942	30	13.126	16.256	15014*	54	19.884	20.866	15086	17	15.246	24.934
14799*	36	19.172	7.736	14871	16	14.780	12.405	14943	8	14.388	16.452	15015	22	20.013	20.650	15087*	36	18.998	24.456
14800	36	21.993	7.754	14872	30	15.034	12.624	14944	11	15.104	16.024	15016	32	20.100	20.126	15088	10	20.318	24.704
14801	33	22.974	7.304	14873	26	15.968	12.026	14945	17	18.034	16.135	15017	13	21.690	20.548	15089*	57	23.149	24.852
14802	33	1.834	8.634	14874	22	16.367	12.927	14946	16	19.483	16.322	15018	50	23.208	20.368	15090*	56	23.377	24.818
14803	16	4.556	8.175	14875	20	18.296	12.194	14947	16	19.613	16.151	15019	45	24.136	20.716	15091	36	24.377	24.924
14804	21	5.058	8.911	14876	35	18.763	12.366	14948	16	21.194	16.764	15020	34	25.926	20.146	15092	22	25.872	24.214
14805	22	9.724	8.202	14877	18	20.234	12.196	14949	14	22.110	16.907	15021	25	1.758	21.097	15093	60	0.623	25.589
14806	14	13.252	8.802	14878*	40	20.362	12.374	14950	10	25.297	16.708	15022	30	3.515	21.382	15094	20	6.258	25.984
14807*	38	13.966	8.666	14879	33	22.150	12.646	14951	25	3.391	17.842	15023	32	3.934	21.903	15095	19	7.584	25.946
14808	30	14.576	8.392	14880	16	22.292	12.888	14952	10	5.226	17.958	15024	16	5.954	21.061	15096	13	8.636	25.596
14809	15	15.476	8.902	14881	39	23.076	12.044	14953	22	7.900	17.754	15025	10	6.418	21.096	15097*	52	9.688	25.194
14810	8	16.305	8.065	14882	36	25.175	12.056	14954	24	11.171	17.894	15026	32	8.066	21.310	15098	24	10.369	25.925
14811	11	16.600	8.494	14883	32	2.763	13.833	14955	14	11.656	17.967	15027	29	9.098	21.054	15099	12	15.214	25.232
14812	21	17.824	8.696	14884	32	2.800	13.818	14956*	37	12.574	17.418	15028	16	9.884	21.025	15100	32	15.557	25.738
14813*	37	19.176	8.604	14885	11	3.180	13.130	14957	15	13.295	17.824	15029	17	9.985	21.934	15101	15	15.603	25.764
14814	16	19.584	8.806	14886	16	4.022	13.419	14958*	36	17.218	17.724	15030	25	11.254	21.873	15102	12	15.605	25.902
14815	32	20.872	8.816	14887	20	4.431	13.072	14959*	38	17.618	17.570	15031	24	18.326	21.925	15103	13	15.726	25.988
14816	13	21.296	8.012	14888	36	8.463	13.616	14960	15	23.159	17.167	15032	22	20.944	21.097	15104	20	18.666	25.602
14817	24	21.396	8.796	14889	30	9.493	13.065	14961	36	24.481	17.920	15033	18	2.394	22.280	15105	36	18.696	25.605
14818	12	22.125	8.646	14890*	25	10.726	13.762	14962	34	0.392	18.054	15034	14	7.363	22.941	15106*	38	21.525	25.239
14819	16	22.302	8.564	14891	14	10.727	13.677	14963	17	1.781	18.407	15035	20	8.586	22.744	15107	16	24.292	25.754
14820	22	24.139	8.894	14892	14	13.498	13.278	14964	26	2.206	18.506	15036	12	10.822	22.825				
14821	30	25.074	8.234	14893	12	19.703	13.548	14965	15	6.124	18.564	15037	16	11.254	22.016				
14822	16	0.683	9.820	14894	28	21.235	13.779	14966	21	8.506	18.523	15038	16	11.584	22.544				
14823*	42	2.914	9.136	14895	17	21.914	13.810	14967	9	9.682	18.578	15039	13	12.156	22.506				
14824	18	4.408	9.771	14896	30	21.959	13.238	14968	25	10.154	18.382	15040	32	12.528	22.844				
14825*	38	5.855	9.006	14897	8	23.252	13.615	14969	16	11.306	18.460	15041	26	13.466	22.766				
14826*	47	7.356	9.195	14898	36	24.626	13.433	14970	36	11.516	18.399	15042	28	13.582	22.764				
14827	24	8.304	9.599	14899	15	24.678	13.054	14971	13	11.692	18.555	15043	14	14.936	22.006				
14828	16	8.637	9.646	14900	12	0.514	14.086	14972	17	12.349	18.036	15044	14	15.966	22.925				
14829	13	8.816	9.714	14901	23	0.950	14.698	14973*	90	14.058	18.288	15045	18	16.234	22.457				
14830	9	10.608	9.234	14902	12	1.865	14.496	14974	20	15.214	18.842	15046	18	16.496	22.602				
14831*	68	12.506	9.735	14903	26	5.473	14.270	14975	14	16.214	18.067	15047	18	16.960	22.296				
14832	19	13.866	9.292	14904*	36	5.756	14.906	14976	10	16.642	18.116	15048	10	19.157	22.576				
14833*	36	15.626	9.684	14905	32	6.144	14.019	14977	32	18.382	18.794	15049	17	19.444	22.448				
14834	24	19.256	9.768	14906*	53	9.514	14.183	14978*	42	18.662	18.892	15050	8	21.282	22.184				
14835	32	25.124	9.383	14907	18	9.926	14.737	14979	18	18.904	18.254	15051	28	21.478	22.273				
14836	17	2.654	10.046	14908*	41	13.954	14.319	14980	14	23.591	18.866	15052	36	23.946	22.594				
14837	12	11.187	10.835	14909*	78	14.896	14.714	14981	37	25.662	18.036	15053	45	25.915	22.766				
14838	21	11.601	10.786	14910	16	15.452	14.894	14982	16	3.206	19.565	15054	26	0.165	23.256				
14839	17	19.472	10.666	14911	16	15.526	14.526	14983	17	3.824	19.651	15055	18	3.034	23.178				
14840	26	24.104	10.116	14912	22	18.194	14.472	14984	34	4.216	19.864	15056	20	3.066	23.256				
14841	38	0.105	11.384	14913*	37	18.814	14.443	1498											

15156	8	6.616	0.750	15228	23	17.564	3.155	15300	14	8.021	7.553	15372	9	10.100	10.972	15444	12	12.645	13.868
15157*	60	6.744	0.596	15229	8	18.263	3.178	15301	12	10.680	7.933	15373	9	14.265	10.834	15445	9	12.759	13.212
15158	23	8.874	0.326	15230	8	18.450	3.645	15302	22	12.668	7.974	15374	8	16.471	10.797	15446	25	13.285	13.572
15159	8	10.244	0.712	15231	12	20.300	3.088	15303	18	16.542	7.916	15375*	41	17.396	10.088	15447	8	16.668	13.416
15160	10	16.479	0.444	15232	10	21.136	3.232	15304	9	17.074	7.109	15376	9	18.137	10.940	15448	8	17.726	13.390
15161	23	17.725	0.980	15233	8	22.074	3.953	15305	8	17.332	7.041	15377*	46	18.810	10.228	15449	23	18.577	13.562
15162	16	18.456	0.499	15234	8	23.046	3.491	15306	21	18.359	7.312	15378	9	19.442	10.208	15450	10	20.740	13.790
15163	9	20.846	0.745	15235	10	25.175	3.198	15307	18	18.417	7.384	15379	12	20.740	10.950	15451	9	23.904	13.619
15164	8	21.335	0.540	15236	8	3.774	4.454	15308	8	18.618	7.216	15380	8	21.028	10.053	15452	10	24.228	13.020
15165	17	21.352	0.220	15237	11	4.620	4.912	15309	8	25.642	7.409	15381	8	22.414	10.074	15453	12	25.960	13.278
15166	8	24.288	0.300	15238	22	5.272	4.265	15310	8	0.401	8.370	15382	8	23.414	10.866	15454	10	1.906	14.946
15167	20	25.105	0.120	15239	8	6.534	4.642	15311	8	0.572	8.714	15383	15	24.664	10.906	15455	8	2.284	14.198
15168	41	25.242	0.266	15240	8	6.746	4.796	15312	8	0.910	8.611	15384	18	25.264	10.698	15456	8	6.294	14.672
15169	47	25.596	0.496	15241	12	14.135	4.391	15313	8	1.634	8.930	15385	13	1.003	11.267	15457	17	7.770	14.010
15170	8	1.156	1.345	15242	14	15.496	4.856	15314	11	2.559	8.261	15386	8	1.292	11.742	15458	22	8.144	14.915
15171	18	1.464	1.194	15243	8	15.639	4.744	15315*	26	4.545	8.190	15387	8	3.828	11.832	15459	18	10.829	14.940
15172	13	1.632	1.822	15244	8	16.664	4.024	15316	9	8.182	8.526	15388	23	3.894	11.943	15460	10	15.204	14.191
15173	9	5.539	1.388	15245	15	18.108	4.086	15317	11	8.730	8.400	15389	20	5.960	11.398	15461*	33	17.618	14.598
15174	20	7.362	1.928	15246	10	18.126	4.900	15318	12	10.178	8.001	15390	12	7.134	11.568	15462	10	20.838	14.116
15175	13	7.920	1.156	15247	10	19.656	4.545	15319	12	10.300	8.334	15391	8	7.448	11.724	15463	8	22.484	14.655
15176	10	8.858	1.667	15248	8	20.653	4.316	15320	11	12.219	8.523	15392*	39	9.836	11.886	15464	8	23.050	14.269
15177	8	11.139	1.290	15249	15	22.847	4.740	15321	8	13.213	8.304	15393	12	10.494	11.758	15465	11	23.740	14.766
15178	13	13.066	1.004	15250	20	23.538	4.543	15322	12	13.474	8.210	15394	8	11.024	11.804	15466	9	23.894	14.724
15179	9	16.028	1.178	15251	18	24.002	4.511	15323	10	13.796	8.274	15395	8	11.797	11.570	15467	8	24.043	14.385
15180	8	18.167	1.090	15252	8	25.259	4.588	15324	20	14.185	8.270	15396	15	12.684	11.522	15468	8	24.137	14.435
15181*	23	19.616	1.708	15253	10	1.346	5.773	15325	8	17.092	8.344	15397	19	15.583	11.871	15469	12	1.104	15.433
15182*	45	20.588	1.929	15254	9	3.174	5.080	15326	8	17.868	8.286	15398	11	17.024	11.586	15470	8	1.424	15.089
15183	8	22.112	1.516	15255	11	3.605	5.012	15327	8	18.820	8.906	15399	10	20.856	11.620	15471	8	2.328	15.667
15184	9	23.202	1.971	15256	20	4.498	5.786	15328	8	19.124	8.350	15400	22	20.997	11.656	15472	10	3.938	15.448
15185*	33	23.444	1.726	15257	8	7.752	5.832	15329	14	19.570	8.838	15401	23	21.842	11.142	15473*	22	3.944	15.216
15186	8	25.298	1.297	15258	8	10.841	5.244	15330	10	19.915	8.802	15402	10	22.610	11.762	15474	8	4.640	15.853
15187	16	25.426	1.665	15259	8	10.858	5.249	15331	8	20.128	8.821	15403	9	22.814	11.514	15475	12	5.976	15.255
15188*	41	0.587	2.430	15260	18	12.697	5.898	15332	8	20.210	8.057	15404	9	23.398	11.076	15476	12	6.414	15.428
15189	8	0.743	2.326	15261	11	13.830	5.732	15333	8	20.376	8.260	15405	8	24.965	11.413	15477	8	6.729	15.617
15190	9	0.883	2.404	15262	8	14.072	5.038	15334	8	20.993	8.332	15406	8	25.173	11.404	15478	12	6.858	15.957
15191	13	0.954	2.423	15263	8	16.126	5.364	15335	8	21.223	8.764	15407	22	0.604	12.094	15479	8	7.301	15.296
15192	8	1.240	2.884	15264	8	16.225	5.386	15336	8	21.265	8.534	15408	19	2.707	12.084	15480	8	7.902	15.758
15193	11	2.084	2.426	15265	10	16.364	5.422	15337	18	21.676	8.226	15409	8	3.140	12.496	15481	14	8.646	15.547
15194*	30	2.464	2.777	15266	8	16.564	5.583	15338	10	21.958	8.375	15410	8	6.081	12.495	15482	10	17.390	15.761
15195	17	3.568	2.344	15267	8	17.958	5.956	15339	8	23.091	8.904	15411	22	7.350	12.968	15483	21	18.067	15.772
15196	10	5.022	2.335	15268	13	18.033	5.822	15340	8	23.870	8.870	15412	13	8.001	12.602	15484	24	18.494	15.964
15197	8	5.715	2.554	15269	10	20.444	5.242	15341	11	24.164	8.892	15413	8	11.346	12.818	15485	8	19.989	15.944
15198	20	5.874	2.971	15270	14	20.502	5.842	15342	8	24.364	8.234	15414	11	12.320	12.104	15486	19	22.175	15.136
15199*	25	6.426	2.536	15271	8	23.480	5.126	15343	8	24.570	8.802	15415	15	13.796	12.118	15487	11	22.736	15.996
15200	12	7.466	2.225	15272	20	25.034	5.257	15344	8	24.774	8.247	15416	8	15.830	12.730	15488	9	22.758	15.091
15201*	41	11.230	2.416	15273	8	25.284	5.727	15345	8	2.556	9.382	15417	10	16.202	12.760	15489	8	23.114	15.371
15202	8	11.378	2.731	15274	42	25.927	5.936	15346	10	2.625	9.410	15418	10	17.642	12.674	15490	9	23.693	15.528
15203*	22	11.554	2.986	15275	8	0.448	6.267	15347	18	4.438	9.385	15419	17	18.060	12.265	15491	8	25.375	15.905
15204	8	11.630	2.990	15276	8	4.092	6.290	15348	8	4.690	9.088	15420	12	18.413	12.923	15492	8	0.318	16.738
15205	8	12.384	2.232	15277*	28	5.229	6.328	15349	8	6.793	9.360	15421	8	18.974	12.168	15493	8	1.714	16.418
15206	10	13.000	2.830	15278	11	8.334	6.890	15350	13	8.156	9.876	15422	8	19.160	12.736	15494	8	1.759	16.486
15207	8	15.296	2.764	15279	8	8.756	6.993	15351*	36	8.616	9.672	15423	8	20.208	12.476	15495*	40	4.006	16.886
15208	23	15.970	2.872	15280	8	8.888	6.328	15352	8	11.884	9.012	15424	12	20.239	12.746	15496*	34	4.163	16.340
15209	9	17.302	2.052	15281	8	9.051	6.364	15353	25	13.378	9.628	15425	8	23.024	12.412	15497	12	6.416	16.843
15210	20	18.844	2.803	15282	20	11.372	6.594	15354	8	15.616	9.782	15426	8	23.054	12.266	15498	8	6.990	16.358
15211	9	19.940	2.586	15283*	35	14.252	6.806	15355	8	17.508	9.046	15427	15	23.280	12.377	15499	12	7.446	16.822
15212	12	21.188	2.708	15284	12	15.426	6.627	15356	8	17.808	9.114	15428	20	23.574	12.264	15500	11	7.956	16.574
15213	20	22.492	2.716	15285	17	17.054	6.128	15357	10	18.976	9.189	15429	8	23.578	12.332	15501*	24	8.040	16.256
15214	8	2.727	3.116	15286	9	17.076	6.742	15358	30	19.651	9.118	15430	14	23.684	12.216	15502*	28	9.100	16.462
15215	13	3.088	3.910	15287	12	17.119	6.810	15359	10	20.503	9.060	15431	8	23.838	12.552	15503	15	11.376	16.691
15216	19	4.929	3.075	15288	8	17.561	6.515	15360	22	21.098	9.550	15432	14	23.858	12.514	15504	10	12.490	16.542
15217	10	5.031	3.896	15289	23	17.960	6.342	15361	8	22.023	9.462	15433	8	0.806	13.660	15505	8	12.802	16.418
15218*	58	6.550	3.040	15290	14	18.194	6.668	15362	8	24.132	9.504	15434	16	2.176	13.464	15506	25	14.498	16.489
15219	19	6.734	3.746	15291	17	19.289	6.8												

15516	8	24.602	16.626	15588	8	20.371	19.810	15660*	50	9.330	23.305	R.A. 6 ^h 56 ^m Plate 471 ; 1915 Feb. 10. Provisional Constants. A B C -0.1752 +.00020 -1.8870 D E F -0.00000 -0.1781 +.7464 Mag.=16.8-1.10√d	15806	8	23.475	2.574
15517	8	24.682	16.010	15589	20	20.470	19.764	15661	10	13.296	23.692		15807	8	25.264	2.528
15518	12	24.873	16.658	15590	8	24.273	19.722	15662	8	13.330	23.758		15808	30	1.950	3.694
15519	12	2.084	17.956	15591	8	25.286	19.812	15663	21	13.414	23.910		15809	8	3.746	3.255
15520	8	4.716	17.636	15592	25	0.842	20.420	15664	9	13.640	23.188		15810	8	3.890	3.383
15521	8	5.845	17.072	15593	21	1.775	20.756	15665	9	13.815	23.869		15811	8	4.635	3.614
15522	14	6.322	17.386	15594	8	2.050	20.465	15666*	27	14.893	23.075		15812*	40	5.095	3.384
15523	15	7.703	17.731	15595	13	3.558	20.159	15667*	60	15.412	23.438		15813	21	5.628	3.143
15524	11	13.536	17.774	15596	9	4.184	20.795	15668	8	15.920	23.866		15814	8	6.618	3.947
15525	10	13.926	17.294	15597	8	4.964	20.144	15669	8	16.058	23.805		15815	22	6.771	3.202
15526	8	14.316	17.313	15598	8	7.430	20.438	15670	14	17.838	23.459	15816	8	7.374	3.135	
15527	23	15.455	17.634	15599	21	7.800	20.904	15671	20	19.116	23.115	15817	23	8.126	3.423	
15528	8	16.810	17.437	15600	9	7.830	20.797	15672	10	21.060	23.290	15818	26	8.274	3.146	
15529*	40	17.326	17.889	15601	9	8.166	20.564	15673	8	21.110	23.157	15819	8	14.335	3.739	
15530	10	17.820	17.342	15602	10	9.060	20.286	15674	13	21.812	23.954	15820	8	15.270	3.950	
15531	8	18.307	17.241	15603	13	9.646	20.530	15675	8	22.956	23.740	15821	8	15.484	3.619	
15532	10	19.564	17.282	15604	12	10.650	20.192	15676	8	23.152	23.955	15822	12	16.356	3.236	
15533	8	21.770	17.371	15605	13	11.900	20.499	15677	8	24.396	23.605	15823	8	18.846	3.300	
15534	15	22.382	17.926	15606*	28	15.531	20.280	15678	10	25.776	23.424	15824	8	18.854	3.666	
15535	10	22.577	17.163	15607	8	17.675	20.604	15679*	38	0.836	24.900	15825	9	19.172	3.128	
15536	8	23.873	17.607	15608	8	18.608	20.566	15680*	30	1.065	24.865	15826	12	19.622	3.992	
15537	9	24.562	17.102	15609	8	19.252	20.750	15681	18	2.067	24.960	15827	8	20.138	3.984	
15538	8	25.068	17.046	15610	10	21.775	20.690	15682	10	3.556	24.230	15828	34	20.778	3.882	
15539	8	25.558	17.486	15611	8	21.914	20.160	15683	13	5.253	24.576	15829	8	21.074	3.984	
15540	8	25.903	17.599	15612	8	22.558	20.853	15684	8	5.315	24.012	15830	8	22.776	3.587	
15541	10	1.203	18.915	15613	8	25.193	20.898	15685	29	5.960	24.328	15831	11	23.134	3.367	
15542	17	3.266	18.058	15614	10	2.215	21.696	15686	8	6.652	24.054	15832	10	25.722	3.294	
15543	12	5.687	18.189	15615	12	4.309	21.048	15687	8	7.356	24.592	15833	8	25.755	3.436	
15544	20	5.986	18.960	15616	12	6.286	21.188	15688	11	8.096	24.914	15834	8	0.900	4.046	
15545*	26	6.455	18.712	15617	8	6.660	21.262	15689	8	8.866	24.872	15835	10	2.666	4.125	
15546	8	6.976	18.226	15618	10	7.726	21.352	15690	14	9.365	24.510	15836	8	2.694	4.403	
15547*	30	7.038	18.761	15619	10	7.730	21.680	15691	12	9.536	24.114	15837	8	3.150	4.965	
15548	12	7.401	18.319	15620	11	10.100	21.318	15692	10	11.794	24.276	15838	8	3.246	4.592	
15549	8	7.672	18.074	15621	14	10.286	21.532	15693	8	13.239	24.498	15839	8	3.868	4.831	
15550	8	9.332	18.126	15622	14	13.186	21.030	15694	8	13.855	24.357	15840	8	5.440	4.246	
15551*	24	11.870	18.831	15623	8	15.602	21.078	15695	8	15.074	24.744	15841	12	7.104	4.764	
15552	14	11.902	18.926	15624	8	15.748	21.342	15696	9	15.170	24.216	15842	13	10.170	4.946	
15553	10	12.292	18.560	15625	16	17.400	21.084	15697	14	16.096	24.813	15843	8	10.212	4.238	
15554*	24	13.544	18.918	15626	8	18.140	21.392	15698	10	16.463	24.164	15844*	40	13.036	4.684	
15555	10	13.615	18.656	15627	8	20.395	21.034	15699	9	17.220	24.297	15845	11	13.774	4.867	
15556	11	15.792	18.169	15628	9	22.692	21.590	15700	8	17.398	24.109	15846	8	13.842	4.209	
15557	13	16.270	18.778	15629	15	25.116	21.924	15701	12	17.796	24.860	15847*	41	15.305	4.206	
15558	8	18.065	18.971	15630	13	25.642	21.566	15702	10	17.828	24.018	15848	9	15.325	4.586	
15559	8	18.476	18.327	15631	17	1.609	22.634	15703	11	18.804	24.900	15849	46	15.462	4.035	
15560	14	18.932	18.109	15632	23	3.579	22.780	15704	12	19.634	24.312	15850	12	15.784	4.658	
15561	8	19.333	18.378	15633	8	4.642	22.248	15705	11	22.459	24.810	15851	8	16.775	4.647	
15562	12	21.688	18.631	15634	9	6.894	22.076	15706	23	22.462	24.144	15852	33	16.865	4.408	
15563	11	21.714	18.124	15635	20	7.975	22.188	15707*	28	23.216	24.127	15853	8	17.250	4.926	
15564	8	23.290	18.062	15636	8	9.100	22.985	15708	8	24.374	24.944	15854	17	20.795	4.242	
15565	8	23.735	18.198	15637	8	9.105	22.042	15709	8	0.860	25.056	15855	22	21.285	4.690	
15566*	26	24.167	18.930	15638	8	11.630	22.784	15710	10	1.996	25.797	15856	36	21.376	4.405	
15567	28	24.714	18.492	15639	19	11.754	22.564	15711	12	5.624	25.285	15857*	63	22.406	4.796	
15568	9	24.978	18.802	15640	8	13.057	22.712	15712	8	6.118	25.239	15858	31	23.452	4.217	
15569	31	25.494	18.148	15641	10	13.932	22.758	15713	14	7.198	25.966	15859	8	23.584	4.684	
15570	9	25.786	18.972	15642	21	14.588	22.214	15714	15	10.826	25.057	15860	9	24.503	4.570	
15571	12	0.056	19.632	15643*	67	15.523	22.265	15715	8	10.995	25.150	15861	8	25.288	4.556	
15572	11	1.926	19.492	15644	8	21.274	22.542	15716	8	11.210	25.874	15862	29	25.471	4.600	
15573	14	2.220	19.490	15645	21	22.215	22.094	15717	10	12.496	25.877	15863	45	25.589	4.116	
15574	26	2.384	19.494	15646	8	22.598	22.231	15718	8	14.420	25.712	15864	13	2.326	5.760	
15575	13	3.508	19.320	15647	8	23.736	22.012	15719	8	14.427	25.270	15865	33	3.605	5.147	
15576	8	4.380	19.754	15648												

15878	8	20.257	5.416	15950	12	5.326	9.686	16022	8	11.676	12.941	16094	8	22.381	15.920	16166	34	13.179	19.156
15879*	30	20.442	5.600	15951	25	6.445	9.256	16023	15	12.940	12.312	16095	8	23.416	15.593	16167	33	15.544	19.132
15880	13	21.131	5.165	15952	33	8.407	9.806	16024	13	13.918	12.920	16096	8	25.667	15.005	16168	8	15.585	19.062
15881*	40	21.242	5.138	15953	9	8.888	9.111	16025	8	14.823	12.216	16097	8	0.476	16.855	16169	8	15.670	19.276
15882	12	23.004	5.294	15954	8	10.181	9.202	16026	8	18.716	12.829	16098	8	1.985	16.784	16170	15	15.778	19.230
15883	8	23.195	5.595	15955	16	10.847	9.384	16027	38	19.770	12.282	16099	39	2.536	16.104	16171	8	16.034	19.496
15884	42	24.774	5.492	15956	10	11.682	9.822	16028	25	20.170	12.676	16100	38	2.572	16.076	16172	42	20.810	19.893
15885	26	25.001	5.742	15957	8	13.128	9.088	16029	13	20.914	12.554	16101	8	4.846	16.437	16173	10	21.234	19.115
15886	12	25.022	5.921	15958	8	13.556	9.232	16030	8	22.492	12.383	16102	15	5.734	16.306	16174	42	21.690	19.500
15887	18	0.774	6.104	15959	8	14.646	9.416	16031	8	23.761	12.646	16103	39	6.606	16.550	16175	8	22.413	19.732
15888*	71	1.664	6.781	15960	18	14.802	9.716	16032	33	24.788	12.234	16104	11	9.492	16.912	16176	8	23.236	19.305
15889	12	2.536	6.216	15961	16	14.857	9.134	16033	8	25.394	12.114	16105	8	10.452	16.698	16177	13	24.918	19.915
15890	8	3.346	6.309	15962	8	15.746	9.590	16034	24	1.848	13.629	16106	40	13.106	16.822	16178	8	25.042	19.656
15891	25	9.444	6.744	15963	10	16.158	9.025	16035	8	2.034	13.656	16107	8	13.681	16.894	16179	8	25.560	19.697
15892	8	11.845	6.150	15964	10	16.940	9.864	16036	34	8.504	13.506	16108	27	13.866	16.148	16180	34	25.849	19.697
15893	8	12.555	6.626	15965	25	17.107	9.218	16037	8	8.626	13.802	16109	32	14.550	16.526	16181	14	2.098	20.652
15894	13	12.780	6.902	15966*	35	17.127	9.220	16038	8	8.674	13.471	16110	9	14.758	16.426	16182	8	2.434	20.932
15895	35	16.204	6.714	15967	9	18.906	9.210	16039	29	9.584	13.511	16111	9	15.700	16.760	16183	8	2.516	20.933
15896	8	17.174	6.518	15968	8	19.154	9.941	16040	11	12.550	13.798	16112	8	18.905	16.556	16184	8	2.654	20.692
15897*	78	17.239	6.866	15969	8	19.585	9.934	16041*	51	14.249	13.380	16113	8	19.317	16.062	16185	28	6.164	20.038
15898	15	17.550	6.733	15970	20	21.425	9.506	16042	11	16.130	13.344	16114	10	21.150	16.432	16186	8	8.586	20.328
15899	8	18.520	6.896	15971	56	23.244	9.140	16043	10	18.429	13.156	16115	22	22.854	16.273	16187	15	13.770	20.534
15900	17	18.659	6.828	15972	18	24.830	9.604	16044	8	19.686	13.192	16116	30	24.330	16.430	16188	8	14.155	20.906
15901	10	19.232	6.552	15973	12	25.528	9.885	16045	22	20.232	13.542	16117	11	24.714	16.074	16189	8	17.209	20.359
15902	8	21.342	6.800	15974	8	1.919	10.770	16046	8	20.241	13.862	16118	8	0.051	17.105	16190	17	17.316	20.934
15903	9	21.672	6.638	15975	24	3.169	10.544	16047	8	20.284	13.745	16119	9	0.668	17.504	16191	17	18.611	20.844
15904	25	21.814	6.987	15976	10	11.217	10.532	16048	8	21.071	13.956	16120	8	0.865	17.897	16192	8	18.799	20.728
15905	14	22.108	6.557	15977	8	12.836	10.246	16049	9	22.918	13.751	16121	8	3.620	17.502	16193	20	19.571	20.793
15906	8	22.740	6.600	15978	42	14.126	10.868	16050	12	23.640	13.091	16122	8	3.949	17.896	16194	8	20.528	20.004
15907	26	23.321	6.657	15979	12	15.240	10.666	16051	32	24.334	13.001	16123	18	4.484	17.852	16195	20	23.232	20.410
15908	8	23.622	6.626	15980	8	18.424	10.028	16052	8	25.305	13.850	16124	11	6.696	17.324	16196	13	24.362	20.381
15909	8	24.463	6.322	15981	9	20.520	10.434	16053	8	1.737	14.120	16125	26	7.275	17.387	16197	14	25.552	20.608
15910	8	25.324	6.967	15982	12	23.484	10.765	16054*	46	2.146	14.843	16126	8	21.428	17.533	16198	9	2.981	21.500
15911	33	25.534	6.134	15983	8	24.808	10.436	16055	8	4.084	14.184	16127	8	21.864	17.380	16199	8	3.153	21.399
15912	8	0.129	7.482	15984	12	0.432	11.750	16056	8	4.491	14.642	16128	8	23.562	17.947	16200	13	5.048	21.388
15913	8	1.646	7.952	15985	16	1.028	11.544	16057	11	5.286	14.271	16129	13	23.725	17.481	16201	8	6.036	21.456
15914	12	4.398	7.379	15986	13	4.131	11.922	16058	46	5.626	14.200	16130	30	24.216	17.454	16202	15	6.184	21.494
15915	8	4.453	7.960	15987	8	5.317	11.870	16059	9	7.140	14.482	16131	22	25.099	17.606	16203	31	6.187	21.034
15916*	67	6.305	7.570	15988	12	7.202	11.024	16060	27	8.116	14.890	16132	51	25.800	17.834	16204	8	6.766	21.229
15917	12	7.010	7.872	15989	8	7.825	11.724	16061	18	9.102	14.497	16133	11	25.803	17.062	16205	8	6.800	21.444
15918	35	8.615	7.932	15990	13	8.525	11.313	16062	8	9.724	14.244	16134	13	25.942	17.214	16206	22	7.576	21.574
15919	11	9.585	7.914	15991	8	9.844	11.680	16063	10	13.150	14.562	16135	40	1.295	18.992	16207	8	8.565	21.665
15920	13	11.429	7.976	15992	10	10.342	11.584	16064	10	14.420	14.357	16136	33	4.120	18.586	16208	28	10.044	21.140
15921*	82	15.175	7.618	15993	9	10.382	11.485	16065	9	15.248	14.078	16137	27	4.262	18.492	16209	9	12.582	21.404
15922	32	16.811	7.188	15994	8	10.916	11.500	16066	8	18.452	14.916	16138	8	5.184	18.306	16210	40	14.769	21.008
15923*	42	18.263	7.165	15995	8	11.273	11.532	16067	13	19.605	14.604	16139	20	9.946	18.200	16211	33	14.968	21.382
15924	38	21.778	7.026	15996	11	12.026	11.324	16068*	46	22.345	14.452	16140	8	11.486	18.475	16212	10	16.262	21.996
15925	8	22.485	7.184	15997	13	14.559	11.124	16069	8	22.965	14.336	16141	12	13.666	18.398	16213	15	17.848	21.332
15926	28	24.094	7.448	15998	8	15.070	11.024	16070	12	24.144	14.932	16142	8	15.246	18.124	16214	8	18.767	21.396
15927	58	24.128	7.167	15999	10	15.270	11.464	16071	8	25.664	14.544	16143	9	16.612	18.516	16215	40	19.312	21.746
15928	10	24.294	7.912	16000	8	17.115	11.914	16072	37	25.738	14.964	16144	12	18.789	18.514	16216	8	19.345	21.864
15929	19	24.376	7.054	16001	8	17.264	11.800	16073	8	3.614	15.140	16145	23	19.258	18.406	16217	8	20.346	21.328
15930	8	24.604	7.446	16002	8	18.958	11.230	16074	20	4.758	15.783	16146	22	19.770	18.359	16218	8	20.910	21.126
15931	13	25.270	7.217	16003	8	19.266	11.886	16075	9	9.642	15.992	16147	22	21.972	18.508	16219	12	23.866	21.505
15932	8	25.688	7.024	16004	8	19.564	11.811	16076	8	11.747	15.594	16148	46	22.475	18.587	16220	29	23.876	21.474
15933	8	1.744	8.591	16005	10	19.676	11.859	16077*	41	11.768	15.406	16149	14	22.668	18.637	16221	12	24.520	21.850
15934	8	2.682	8.819	16006	32	20.776	11.172	16078	8	12.122	15.180	16150	8	24.333	18.346	16222	8	25.062	21.872
15935*	42	7.544	8.016	16007	12	22.711	11.716	16079*	30	13.294	15.354	16151	8	25.444	18.735	16223	10	25.350	21.500
15936	20	8.005	8.090	16008	8	25.929	11.864	16080	27	13.940	15.708	16152	44	0.516	19.342	16224	14	0.940	22.774
15937	8	8.446	8.398	16009	8	0.942	12.246	16081*	45	15.366	15.794	16153	8	0.780	19.648	16225	9	1.466	22.408
15938	8	12.084	8.596	16010	9	2.330	12.864	16082	8	16.061	15.402	16154	8	1.596	19.814	16226	9	7.248	22.410
15939	12	14.371	8.604	16011	11	2.507	12.839	16083	8	16.786	15.046	16155	8	3.199	19.548	16227*	47	8.336	22.098
15940.	8	14.508	8.933	16012*	40	4.794	12.727	16084	10	17.090	15.953	16156	12	3.252	19.613	16			

16238	37	20.628	22.308	16310	8	17.540	25.000	16390	12	14.034	1.522	16462	37	4.833	3.374	16534	21	24.466	4.036
16239	37	20.662	22.861	16311	8	17.666	25.231	16391	13	14.172	1.562	16463	15	6.382	3.346	16535	13	25.093	4.435
16240	8	21.043	22.420	16312	34	20.652	25.104	16392	29	15.039	1.374	16464	18	6.568	3.279	16536	14	0.949	5.952
16241	17	21.552	22.332	16313	8	21.138	25.827	16393	17	16.199	1.266	16465	11	6.571	3.015	16537	8	0.973	5.196
16242	47	25.850	22.966	16314	8	21.522	25.240	16394	17	16.298	1.330	16466	9	8.393	3.982	16538	18	1.384	5.865
16243	8	0.458	23.794	16315	63	23.118	25.290	16395	22	16.792	1.843	16467	13	8.875	3.822	16539	11	2.017	5.895
16244	12	4.982	23.834	16316	34	23.633	25.629	16396	11	16.970	1.966	16468	25	8.996	3.627	16540	25	2.598	5.946
16245	8	7.443	23.366	16317	14	24.543	25.706	16397	25	18.004	1.997	16469	8	9.374	3.546	16541	10	2.900	5.914
16246	8	7.550	23.530	16318	20	25.240	25.260	16398	8	18.846	1.684	16470	8	10.552	3.625	16542	9	3.736	5.600
16247	12	8.330	23.562					16399	11	20.132	1.231	16471	31	11.372	3.517	16543	9	4.032	5.775
16248	25	8.536	23.304					16400	9	21.319	1.021	16472	18	12.616	3.033	16544	20	4.266	5.009
16249	29	8.854	23.218					16401	21	22.300	1.872	16473	9	12.648	3.074	16545	15	4.288	5.186
16250	8	11.020	23.054					16402	9	24.214	1.958	16474	22	12.896	3.009	16546	8	4.410	5.270
16251	29	11.678	23.557					16403	8	25.258	1.784	16475	23	12.898	3.582	16547	23	4.804	5.390
16252	8	12.090	23.791					16404	22	25.266	1.708	16476	8	13.600	3.324	16548	8	6.152	5.966
16253	21	12.091	23.204					16405	40	25.798	1.888	16477	9	14.188	3.326	16549	10	6.608	5.297
16254	9	15.660	23.714					16406	8	2.016	2.889	16478	11	14.578	3.229	16550	25	6.850	5.944
16255	8	16.120	23.793					16407	8	2.216	2.035	16479	13	14.656	3.592	16651	10	6.912	5.764
16256	14	16.680	23.770					16408	10	2.223	2.506	16480	8	17.052	3.886	16552	12	7.394	5.465
16257	22	16.732	23.176					16409	10	2.368	2.666	16481	8	17.840	3.808	16553	11	7.555	5.006
16258	14	17.048	23.264					16410	18	4.954	2.546	16482	10	19.114	3.834	16554	11	7.953	5.874
16259	8	18.248	23.102					16411	8	4.989	2.698	16483	11	19.662	3.604	16555	14	8.338	5.734
16260	8	18.324	23.386					16412	11	5.035	2.266	16484	12	19.739	3.634	16556	8	9.520	5.220
16261	8	18.974	23.075					16413	26	7.059	2.213	16485	8	20.276	3.670	16557	11	9.797	5.866
16262	8	19.610	23.818					16414	8	7.785	2.287	16486	8	21.508	3.786	16558*	33	11.770	5.701
16263	9	20.666	23.004					16415	11	8.936	2.614	16487	36	22.334	3.500	16559	8	11.805	5.686
16264	8	21.480	23.549					16416	8	9.945	2.420	16488	33	22.415	3.627	16560	11	12.068	5.778
16265	34	23.131	23.302					16417	8	10.652	2.497	16489	18	22.679	3.021	16561	8	12.180	5.156
16266	8	1.613	24.272					16418	21	11.141	2.378	16490	14	23.746	3.186	16562*	31	12.662	5.671
16267	8	5.595	24.972					16419	8	11.235	2.678	16491	11	23.847	3.666	16563	8	13.156	5.982
16268	8	6.168	24.986					16420	17	11.356	2.394	16492	26	24.546	3.728	16564	22	15.562	5.996
16269	8	6.445	24.754					16421	10	11.960	2.730	16493	14	0.384	4.486	16565	9	15.614	5.292
16270	16	8.876	24.606					16422	9	12.486	2.460	16494	36	0.494	4.456	16566	17	15.856	5.410
16271	23	9.674	24.250					16423	13	13.175	2.350	16495	20	0.536	4.006	16567	15	16.004	5.502
16272	8	9.718	24.412					16424	35	13.894	2.279	16496*	50	1.655	4.094	16568	8	16.692	5.876
16273	10	9.998	24.880					16425	11	14.573	2.887	16497	8	2.037	4.021	16569	26	17.900	5.750
16274	8	10.016	24.837					16426	13	15.219	2.447	16498	20	2.263	4.588	16570	14	18.027	5.663
16275	13	10.613	24.564					16427	19	15.332	2.802	16499	9	2.456	4.885	16571	8	18.234	5.879
16276	8	10.774	24.230					16428	8	15.862	2.294	16500	33	4.032	4.762	16572	8	19.002	5.293
16277	19	10.849	24.114					16429	14	16.904	2.677	16501	14	6.167	4.003	16573	8	19.146	5.590
16278	12	12.506	24.904					16430	8	16.880	2.799	16502	9	8.173	4.808	16574	26	19.170	5.880
16279	8	12.970	24.066					16431	21	17.187	2.599	16503	9	8.288	4.632	16575	13	19.301	5.825
16280	11	13.733	24.167					16432	9	18.063	2.946	16504	9	8.644	4.960	16576	10	19.644	5.009
16281	13	13.858	24.025					16433	12	18.132	2.032	16505	10	8.758	4.086	16577	8	20.802	5.290
16282	34	14.196	24.264					16434	13	18.546	2.161	16506	15	8.951	4.820	16578	16	21.224	5.420
16283	14	15.656	24.138					16435*	43	18.547	2.764	16507	19	9.549	4.070	16579	8	21.478	5.777
16284	8	16.772	24.633					16436	10	18.944	2.510	16508	10	10.235	4.352	16580	8	22.504	5.213
16285	24	18.706	24.953					16437	16	19.071	2.938	16509	8	10.384	4.884	16581	9	22.592	5.094
16286	14	19.115	24.575					16438	26	19.146	2.999	16510	11	11.564	4.992	16582	12	22.854	5.400
16287	12	19.850	24.300					16439*	37	20.722	2.672	16511	17	11.573	4.070	16583	13	24.246	5.202
16288*	57	20.221	24.063					16440	19	20.781	2.986	16512	14	11.994	4.380	16584	14	25.253	5.126
16289	8	20.806	24.847					16441*	82	21.030	2.928	16513	17	12.298	4.058	16585	10	0.618	6.116
16290	13	21.139	24.745					16442	8	21.858	2.489	16514	9	12.226	4.782	16586	32	1.058	6.336
16291	8	21.409	24.374					16443	10	22.200	2.896	16515	8	12.912	4.331	16587	22	1.092	6.300
16292	33	21.960	24.257					16444	8	22.742	2.425	16516	24	13.829	4.960	16588	11	1.769	6.484
16293	8	22.077	24.325					16445	20	23.074	2.186	16517	16	13.898	4.727	16589	11	1.785	6.606
16294	8	24.674	24.298					16446	24	24.264	2.676	16518	13	13.974	4.115	16590	22	3.380	6.726
16295	10	25.805	24.958					16447	16	25.066	2.307	16519	15	14.519	4.418	16591*	45	3.410	6.445
16296	11	5.384	25.199					16448	9	25.429	2.081	16520	26	14.544	4.205	16592	24	3.658	6.329
16297	8	5.754	25.187					16449	8	25.618	2.326	16521	13	15.001	4.756	16593	12	3.890	6.722
16298	34	5.836	25.566					16450	17	25.882	2.914	16522	20	15.267	4.184	16594	17	4.554	6.480
16299	9	6.183	25.492					16451	20	0.018	3.206	16523	8	15.727	4.709	16595	16	4.602	6.227
16300	17	9.188	25.868					16452	16	0.041	3.565	16524	8	15.734	4.757	16596	14	4.970	6.284
16301	8	11.216	25.086					16453	9	0.318	3.314	16525	9	16.963	4.848	16597	9	5.360	6.400
16302	8	11.486	25.812					16454	30	0.621	3.720	16526	30	17.108	4.419	16598	21	5.668	6.478
16303	8	13.678	25.374					16455	8	1.482	3.584	16527	12	17.600	4.964	16599	8	5.690	6.144
16304*	60	14.030	25.980					16456	8	2.653	3.564	16528	8	17.770	4.057	16600	13	7.147	6.140
16305	8	15.830	25.132					16457	23	2.696	3.502	16529	12	19.097	4.500	16601	14	7.241	6.954
16306	14	16.094	25.470					16458	9	3.714	3.865	16530	18	19.924	4.546	16602	9	8.017	6.337
16307	9	16.836	25.853					16459	12	3.751	3.844	16531	13	22.253	4.142	16603	14	8.527	

16606	16	11.338	6.744	16678	19	5.596	8.965	16750	8	16.284	9.165	16822	12	18.976	11.620	16894	8	10.088	13.643
16607	14	11.872	6.955	16679	17	5.725	8.925	16751	8	16.360	9.758	16823	9	19.328	11.574	16895	9	10.699	13.874
16608	8	12.018	6.796	16680	16	5.777	8.920	16752	10	16.500	9.420	16824	10	19.403	11.984	16896	8	12.878	13.100
16609	8	12.685	6.984	16681	8	7.563	8.854	16753*	38	17.020	9.470	16825	8	19.461	11.367	16897	10	13.112	13.134
16610*	37	13.219	6.593	16682	10	7.655	8.110	16754	14	17.276	9.352	16826*	47	19.532	11.394	16898*	63	14.050	13.057
16611	15	13.267	6.540	16683	22	7.678	8.680	16755	12	17.559	9.328	16827	8	19.992	11.352	16899	17	14.724	13.328
16612	9	13.341	6.885	16684	20	8.694	8.962	16756	9	17.592	9.513	16828	11	20.550	11.904	16900	12	14.840	13.580
16613	22	14.150	6.770	16685	16	8.890	8.575	16757	8	18.361	9.831	16829	12	21.102	11.100	16901	8	14.878	13.510
16614*	28	15.085	6.597	16686	8	9.407	8.813	16758	20	19.223	9.689	16830	27	21.535	11.994	16902	8	14.920	13.400
16615	8	15.160	6.865	16687	11	10.005	8.356	16759	10	19.329	9.102	16831	12	22.026	11.626	16903	10	15.098	13.274
16616	10	16.688	6.022	16688	17	10.176	8.068	16760	12	20.068	9.659	16832	8	22.323	11.236	16904	8	15.686	13.585
16617	24	16.818	6.777	16689	19	11.142	8.676	16761	17	20.550	9.815	16833	16	22.440	11.448	16905	11	15.740	13.768
16618	23	17.069	6.647	16690	27	11.908	8.340	16762	17	21.564	9.910	16834	10	22.536	11.490	16906	10	15.899	13.776
16619	11	17.266	6.518	16691	10	12.234	8.109	16763	8	23.058	9.402	16835	21	22.965	11.328	16907	8	15.977	13.356
16620	8	17.320	6.407	16692	9	12.371	8.235	16764	16	24.848	9.100	16836	15	23.568	11.806	16908	26	16.181	13.808
16621	12	17.646	6.028	16693	13	12.422	8.249	16765	25	0.114	10.492	16837	10	23.750	11.545	16909	14	16.340	13.464
16622	14	18.176	6.230	16694	19	12.636	8.562	16766	15	2.814	10.054	16838	14	23.833	11.848	16910	10	16.712	13.046
16623	8	19.288	6.200	16695	9	12.723	8.334	16767	8	7.610	10.009	16839	18	24.464	11.596	16911*	40	17.588	13.429
16624	12	19.658	6.016	16696	8	12.714	8.150	16768	10	8.477	10.650	16840	15	25.438	11.142	16912	10	17.780	13.593
16625	9	19.672	6.166	16697	13	12.769	8.035	16769	10	8.840	10.252	16841	17	25.931	11.828	16913	10	18.079	13.202
16626	12	19.682	6.315	16698	10	13.804	8.532	16770	9	10.350	10.546	16842	8	2.273	12.300	16914	8	18.162	13.378
16627	14	21.652	6.962	16699	9	14.628	8.898	16771	11	10.770	10.222	16843	8	2.821	12.468	16915	8	18.581	13.104
16628	23	22.103	6.534	16700	10	14.775	8.356	16772	11	11.298	10.197	16844	15	3.003	12.376	16916	8	18.666	13.960
16629	34	22.184	6.874	16701	21	15.384	8.626	16773	8	12.018	10.185	16845	25	3.694	12.275	16917	10	18.755	13.370
16630	37	23.048	6.542	16702	23	15.802	8.644	16774	15	12.126	10.178	16846	8	6.533	12.350	16918	11	18.934	13.754
16631	22	24.477	6.610	16703*	27	16.048	8.055	16775	8	12.313	10.921	16847	8	6.860	12.138	16919	8	19.300	13.382
16632	35	25.562	6.302	16704	17	16.214	8.464	16776	8	12.363	10.190	16848	20	7.148	12.272	16920	10	19.700	13.707
16633	9	1.975	7.195	16705	8	16.931	8.463	16777	8	12.941	10.856	16849	21	7.316	12.400	16921	9	22.543	13.695
16634	14	2.534	7.334	16706	10	17.000	8.385	16778	13	12.964	10.832	16850	8	7.623	12.376	16922	22	23.208	13.514
16635	12	2.566	7.361	16707	13	17.302	8.006	16779*	52	13.120	10.960	16851	8	8.398	12.577	16923*	26	23.418	13.277
16636	15	3.587	7.190	16708	8	17.400	8.660	16780	13	14.148	10.043	16852	9	8.509	12.202	16924	8	23.534	13.794
16637	9	5.120	7.844	16709	27	17.935	8.200	16781	8	14.364	10.086	16853	12	9.271	12.372	16925	23	24.002	13.456
16638	10	5.273	7.513	16710	26	18.163	8.538	16782	11	14.754	10.940	16854	15	10.198	12.338	16926	18	24.190	13.275
16639	10	5.342	7.038	16711	8	18.306	8.279	16783	13	15.563	10.210	16855	24	10.858	12.952	16927	8	24.223	13.412
16640	9	5.600	7.785	16712	20	18.609	8.806	16784	8	15.753	10.843	16856	10	11.967	12.501	16928	15	0.026	14.337
16641	10	6.276	7.876	16713	8	19.442	8.292	16785	9	16.965	10.535	16857	16	12.150	12.388	16929	15	0.672	14.908
16642*	26	7.145	7.678	16714	25	19.655	8.726	16786	8	17.524	10.127	16858	14	12.525	12.458	16930	8	1.777	14.818
16643	9	7.190	7.422	16715	10	22.529	8.796	16787	8	18.100	10.628	16859	8	14.530	12.194	16931	16	3.530	14.210
16644	14	7.396	7.974	16716	20	23.324	8.484	16788	17	18.904	10.104	16860	8	14.784	12.626	16932	14	5.060	14.264
16645	10	8.985	7.538	16717	9	23.610	8.856	16789	10	21.062	10.334	16861	8	15.282	12.340	16933	23	5.124	14.217
16646	8	9.878	7.154	16718	9	23.632	8.936	16790	11	21.280	10.476	16862	33	15.482	12.328	16934	15	7.332	14.153
16647	11	10.340	7.512	16719	10	23.869	8.940	16791	8	23.855	10.520	16863	12	15.884	12.922	16935	8	7.366	14.298
16648	10	10.733	7.004	16720	8	23.963	8.067	16792	25	24.657	10.063	16864	8	17.037	12.570	16936	14	7.480	14.574
16649	10	10.910	7.854	16721	22	24.037	8.540	16793	10	25.750	10.167	16865	8	17.570	12.500	16937	8	7.724	14.248
16650	10	10.930	7.262	16722	9	24.214	8.972	16794	15	0.270	11.874	16866	8	17.572	12.464	16938	9	7.886	14.880
16651	10	11.206	7.210	16723	8	0.039	9.688	16795	10	1.845	11.684	16867*	30	17.906	12.858	16939	10	9.122	14.532
16652	8	11.716	7.702	16724	9	0.082	9.260	16796	13	2.054	11.012	16868	10	18.341	12.410	16940	10	9.347	14.165
16653	10	12.446	7.567	16725	8	3.487	9.192	16797	11	3.117	11.930	16869	8	18.838	12.027	16941	10	9.375	14.500
16654	8	12.752	7.198	16726	9	3.534	9.376	16798	8	3.972	11.042	16870	19	19.688	12.484	16942	20	9.702	14.326
16655*	37	13.080	7.002	16727	8	4.139	9.707	16799	22	4.138	11.500	16871	10	20.432	12.950	16943	19	10.128	14.610
16656	20	13.170	7.146	16728	16	4.850	9.146	16800	13	4.740	11.373	16872	8	20.617	12.435	16944	15	10.836	14.210
16657	23	13.233	7.471	16729	10	5.454	9.243	16801	10	5.270	11.117	16873	10	20.892	12.396	16945	8	10.888	14.726
16658	8	15.683	7.740	16730	8	6.590	9.443	16802	8	7.332	11.105	16874	14	21.277	12.302	16946	19	10.894	14.559
16659	8	16.634	7.516	16731	8	6.804	9.164	16803	10	8.726	11.526	16875*	38	21.448	12.443	16947	9	11.782	14.743
16660*	33	16.655	7.273	16732	13	8.833	9.227	16804	29	9.453	11.194	16876*	29	21.510	12.065	16948	8	12.182	14.226
16661	24	17.359	7.634	16733	11	9.180	9.846	16805	9	10.194	11.718	16877	15	24.220	12.167	16949	8	12.306	14.665
16662	8	17.563	7.447	16734	8	10.290	9.112	16806	18	11.396	11.735	16878	8	25.122	12.562	16950	17	12.606	14.846
16663	13	18.177	7.042	16735	16	10.314	9.340	16807	10	11.560	11.520	16879	16	25.582	12.204	16951	11	13.208	14.702
16664	13	18.190	7.502	16736	8	10.682	9.791	16808	8	11.810	11.408	16880	8	0.446	13.274	16952*	53	13.640	14.088
16665	21	18.888	7.050	16737	8	11.432	9.882	16809	8	11.897	11.534	16881*	36	1.722	13.751	16953	13	13.660	14.134
16666	10	21.508	7.083	16738	11	11.620	9.048	16810	8	11.952	11.362	16882	11	2.289	13.046	16954	8	14.628	14.169
16667	10	22.266	7.740	16739	22	11.772	9.354	16811	21	12.784	11.319	16883	14	2.346	13.632	16955	10	14.714	14.284
16668	8	22.452	7.328	16740	17	11.826	9.556	16812	14	13.302	11.100	16884	9	2.892	13.488	16956</			

16966	8	19.926	14.947	17038	9	7.940	16.413	17110*	46	17.729	17.372	17182	30	16.876	19.554	17254*	34	18.762	21.021
16967	8	20.582	14.286	17039	10	8.140	16.752	17111	8	17.970	17.430	17183	17	16.956	19.810	17255	12	18.879	21.535
16968	10	20.685	14.099	17040	26	8.664	16.127	17112	8	22.742	17.259	17184	8	17.342	19.838	17256	10	18.890	21.668
16969	19	20.760	14.398	17041	15	8.818	16.465	17113	8	22.882	17.066	17185	13	17.918	19.040	17257	26	19.600	21.184
16970	10	22.522	14.440	17042	8	8.878	16.506	17114	11	23.016	17.064	17186	8	18.418	19.626	17258	8	20.036	21.424
16971	28	24.450	14.926	17043	10	10.194	16.268	17115	12	24.220	17.714	17187	24	19.016	19.196	17259	17	22.307	21.666
16972	9	25.885	14.584	17044	11	10.227	16.634	17116	21	25.640	17.536	17188	23	20.208	19.668	17260	10	22.338	21.994
16973	16	0.558	15.752	17045	8	10.880	16.734	17117	17	0.678	18.432	17189	8	20.574	19.645	17261	8	23.800	21.190
16974	13	1.783	15.225	17046	10	11.293	16.377	17118	31	1.138	18.806	17190	22	21.520	19.140	17262	23	25.234	21.780
16975	21	2.258	15.565	17047	18	12.243	16.915	17119	8	2.096	18.687	17191	14	21.900	19.736	17263	8	25.836	21.640
16976	24	3.734	15.700	17048	20	12.458	16.634	17120	8	2.683	18.588	17192	33	22.454	19.207	17264	31	0.158	22.181
16977	10	4.054	15.858	17049	13	12.670	16.794	17121	8	2.813	18.506	17193	14	22.908	19.085	17265	11	0.164	22.326
16978	16	4.116	15.346	17050	8	13.207	16.252	17122	8	3.658	18.152	17194	25	23.532	19.954	17266	13	0.984	22.856
16979	25	6.357	15.842	17051	8	13.864	16.664	17123	8	4.160	18.510	17195	9	23.765	19.815	17267	31	2.630	22.587
16980	18	7.170	15.500	17052	11	13.920	16.084	17124	9	4.494	18.922	17196	17	24.063	19.018	17268*	40	5.342	22.216
16981	8	8.053	15.884	17053	9	16.231	16.248	17125	10	5.011	18.954	17197	8	24.616	19.916	17269	15	5.770	22.933
16982	17	8.518	15.681	17054	11	16.864	16.032	17126	25	5.300	18.946	17198	8	0.902	20.152	17270	11	6.488	22.151
16983	9	10.370	15.674	17055	21	16.956	16.776	17127	14	6.836	18.876	17199	15	3.344	20.783	17271	11	6.524	22.354
16984	8	10.890	15.367	17056	15	17.010	16.560	17128	17	7.096	18.398	17200	21	3.350	20.750	17272	12	7.695	22.683
16985	10	11.802	15.912	17057	9	17.090	16.652	17129	11	7.589	18.214	17201	9	4.120	20.648	17273	8	8.362	22.586
16986	16	11.890	15.060	17058	9	17.506	16.726	17130	13	8.932	18.008	17202	8	4.261	20.030	17274	8	8.370	22.934
16987	10	11.904	15.906	17059	12	17.520	16.109	17131	11	12.897	18.660	17203	12	4.823	20.760	17275	14	8.477	22.510
16988	12	12.146	15.432	17060	10	18.218	16.800	17132*	41	12.897	18.018	17204	10	5.883	20.929	17276	20	8.764	22.454
16989	8	12.682	15.642	17061	15	18.544	16.672	17133	8	16.382	18.470	17205	9	5.925	20.017	17277*	30	8.876	22.080
16990	20	13.261	15.430	17062	9	18.776	16.002	17134	11	16.494	18.906	17206	10	6.111	20.730	17278	12	10.866	22.143
16991	10	13.656	15.512	17063	8	19.172	16.756	17135	12	16.760	18.260	17207	12	6.314	20.842	17279	16	12.368	22.470
16992	13	14.085	15.400	17064	8	19.339	16.682	17136	12	17.118	18.873	17208	10	6.486	20.129	17280*	34	12.607	22.977
16993	29	14.733	15.345	17065	10	20.262	16.632	17137*	87	17.635	18.935	17209	10	7.422	20.274	17281	10	14.024	22.405
16994	10	14.757	15.170	17066	10	21.108	16.238	17138	8	17.756	18.342	17210	10	7.842	20.160	17282	18	14.032	22.390
16995	10	15.156	15.246	17067	9	21.292	16.653	17139	12	18.108	18.976	17211	9	9.864	20.593	17283	10	14.072	22.253
16996	8	15.208	15.275	17068	13	21.707	16.286	17140	9	18.709	18.086	17212	10	11.133	20.761	17284	10	14.612	22.966
16997	18	15.520	15.178	17069	8	22.232	16.436	17141	8	19.150	18.554	17213	10	11.910	20.518	17285	13	15.418	22.319
16998	8	16.754	15.308	17070	14	22.388	16.128	17142	24	19.298	18.416	17214*	39	11.973	20.070	17286	8	15.854	22.885
16999	14	16.962	15.991	17071	19	23.110	16.868	17143	8	20.275	18.070	17215	24	12.936	20.548	17287	22	16.311	22.592
17000	12	17.842	15.400	17072*	43	23.226	16.490	17144	15	20.435	18.937	17216	8	13.452	20.663	17288	8	16.325	22.606
17001	9	17.850	15.696	17073	10	23.628	16.681	17145	10	20.574	18.665	17217	9	14.214	20.554	17289	10	16.560	22.680
17002	8	17.984	15.416	17074	21	25.081	16.116	17146	10	20.986	18.481	17218	12	15.429	20.026	17290	8	16.622	22.241
17003*	40	18.065	15.560	17075	10	25.292	16.740	17147	11	21.811	18.612	17219	10	15.610	20.905	17291	10	16.876	22.482
17004	8	18.184	15.782	17076	15	25.394	16.946	17148	8	22.165	18.744	17220	12	16.130	20.177	17292	15	18.002	22.712
17005	10	18.669	15.590	17077	9	1.130	17.480	17149	20	22.965	18.732	17221	29	16.684	20.604	17293	11	18.672	22.852
17006	8	18.970	15.140	17078	19	1.405	17.814	17150	38	24.016	18.044	17222	14	16.895	20.326	17294	8	20.026	22.904
17007	8	19.320	15.535	17079	10	1.712	17.500	17151	8	24.224	18.846	17223	23	17.474	20.784	17295	12	20.275	22.056
17008	14	19.373	15.756	17080	39	1.910	17.883	17152	14	25.108	18.975	17224	10	17.543	20.519	17296	11	20.836	22.885
17009	24	19.534	15.264	17081	19	2.103	17.932	17153	9	0.142	19.252	17225	14	18.588	20.191	17297	41	21.689	22.888
17010	19	19.620	15.112	17082	10	2.992	17.232	17154	31	0.264	19.214	17226	14	20.796	20.599	17298	9	23.176	22.085
17011	12	20.100	15.680	17083	8	3.506	17.174	17155	10	1.866	19.034	17227	16	20.920	20.988	17299	14	23.231	22.756
17012	8	21.380	15.835	17084	9	3.601	17.320	17156	21	2.691	19.698	17228	12	22.447	20.898	17300	8	23.714	22.018
17013	10	21.578	15.233	17085	9	3.766	17.620	17157	17	3.824	19.652	17229	13	22.712	20.786	17301	11	24.690	22.954
17014	11	21.726	15.197	17086*	39	5.223	17.085	17158	15	4.374	19.180	17230	14	24.238	20.710	17302	26	1.473	23.561
17015	17	21.760	15.826	17087	12	5.720	17.605	17159	8	4.621	19.615	17231	21	24.425	20.790	17303	12	1.592	23.628
17016	18	21.982	15.260	17088	8	6.593	17.013	17160	17	5.016	19.864	17232	11	25.360	20.147	17304	13	4.187	23.565
17017	24	22.256	15.694	17089	31	7.648	17.370	17161*	36	5.554	19.450	17233	8	25.634	20.103	17305	17	6.610	23.410
17018	8	22.752	15.768	17090	14	7.926	17.521	17162*	44	5.632	19.528	17234	8	25.806	20.582	17306	8	7.073	23.866
17019	23	22.897	15.822	17091	9	8.092	17.554	17163*	39	6.320	19.380	17235	8	25.827	20.584	17307	11	8.255	23.124
17020	21	23.117	15.006	17092	12	9.436	17.682	17164	9	6.370	19.257	17236	28	0.114	21.628	17308	28	11.233	23.512
17021	10	23.707	15.730	17093	10	9.900	17.107	17165	10	6.800	19.050	17237	13	0.532	21.735	17309	8	12.534	23.022
17022	13	24.518	15.502	17094	8	10.546	17.400	17166	8	7.700	19.272	17238	15	1.040	21.640	17310	19	12.621	23.075
17023	22	24.856	15.223	17095	22	10.781	17.960	17167	15	8.216	19.396	17239	14	4.002	21.116	17311	12	12.816	23.285
17024	8	25.074	15.226	17096	17	10.798	17.669	17168	12	8.258	19.754	17240	11	4.543	21.135	17312	10	14.530	23.904
17025	13	0.850	16.846	17097	9	11.184	17.284	17169	10	8.405	19.693	17241	17	8.296	21.700	17313	8	16.720	23.720
17026	8	1.286	16.572	17098	9	11.287	17.992	17170	12	9.540	19.906	17242	20	8.324	21.887	17314	19	18.032	23.593
17027	16	3.148	16.762	17099	14	13.187	17.873	17171	8	9.605	19.166	17243	8	9.017	21.006	17315	8	19.250	23.760
17028	23	3.636	16.7																

17326	18	4.077	24.976	R.A. 7^h 12^m Plate 472 ; 1915 Feb. 10. <i>Provisional Constants.</i> A B C -01768 +00664 -1461 D E F -00653 -01788 +1284 $Mag. = 16.0 - 1.10\sqrt{d}$	17456	9	21.278	1.768	17528	15	13.862	4.014	17600	8	5.749	7.960
17327	27	4.766	24.524		17457	11	21.596	1.256	17529	12	14.133	4.622	17601	9	6.302	7.770
17328	15	5.330	24.206		17458	16	24.706	1.294	17530	9	14.989	4.242	17602	11	6.740	7.249
17329	15	6.316	24.213		17459	20	25.876	1.439	17531	19	16.402	4.439	17603	8	9.010	7.187
17330*	49	7.275	24.240		17460	18	0.490	2.340	17532	22	17.716	4.315	17604	8	10.843	7.669
17331	9	8.454	24.613		17461	23	1.681	2.813	17533	12	19.841	4.852	17605	27	11.524	7.879
17332	19	8.520	24.239		17462	13	2.480	2.432	17534	8	20.834	4.500	17606	21	15.036	7.602
17333	8	9.397	24.204		17463	9	2.840	2.200	17535	15	21.817	4.497	17607	14	16.275	7.570
17334	25	9.781	24.585		17464	35	3.210	2.003	17536	14	22.821	4.060	17608	8	16.308	7.460
17335	21	12.190	24.430		17465	8	7.236	2.112	17537	15	22.830	4.750	17609	10	18.800	7.824
17336	25	12.926	24.406	No. d x y 17401 10 0.001 0.306 17402 12 3.666 0.868 17403 10 7.144 0.110 17404* 31 8.141 0.363 17405 8 8.148 0.454 17406 9 8.416 0.213 17407 8 8.416 0.063 17408 8 9.150 0.127 17409 8 10.368 0.565 17410 20 10.428 0.750 17411 8 12.177 0.751 17412 21 13.156 0.058 17413 11 13.343 0.480 17414 21 13.854 0.824 17415 20 14.018 0.794 17416 9 14.104 0.830 17417 23 14.187 0.698 17418 11 14.318 0.144 17419 24 15.263 0.176 17420 31 15.452 0.846 17421 16 15.722 0.390 17422 18 15.933 0.815 17423 9 16.054 0.793 17424 28 16.772 0.653 17425 21 17.386 0.564 17426 14 18.576 0.952 17427 18 19.361 0.137 17428 17 20.917 0.380 17429 19 21.318 0.087 17430 8 22.625 0.413 17431 19 24.235 0.848 17432 11 24.500 0.342 17433 11 0.197 1.018 17434 9 2.146 1.308 17435 19 2.674 1.832 17436 10 2.800 1.024 17437 9 5.645 1.158 17438 9 9.089 1.541 17439 19 11.284 1.743 17440 32 11.949 1.214 17441 22 12.732 1.223 17442 20 13.144 1.066 17443 19 13.844 1.476 17444 8 14.578 1.014 17445 24 14.587 1.118 17446 10 14.640 1.779 17447 10 14.807 1.919 17448 20 14.886 1.514 17449 13 14.892 1.713 17450 8 17.137 1.946 17451* 45 18.265 1.090 17452 18 18.474 1.550 17453 9 18.684 1.772 17454 8 19.114 1.462 17455* 68 19.928 1.331	17456	9	21.278	1.768	17528	15	13.862	4.014	17600	8	5.749	7.960
17337	9	13.169	24.526		17466	16	9.216	2.652	17538	8	0.308	5.558	17610	22	18.906	7.970
17338	9	13.176	24.544		17467	13	10.507	2.732	17539	9	1.698	5.340	17611	8	18.953	7.480
17339*	60	16.104	24.021		17468	17	11.915	2.748	17540	18	3.953	5.468	17612	8	19.470	7.037
17340	10	17.174	24.392		17469*	58	11.940	2.443	17541	10	3.954	5.392	17613	8	20.684	7.719
17341	20	17.272	24.064		17470	8	12.856	2.500	17542*	36	5.049	5.336	17614	8	20.750	7.314
17342*	65	17.850	24.989		17471	14	13.122	2.216	17543	10	5.376	5.126	17615	8	23.515	7.962
17343	19	18.252	24.793		17472	32	14.138	2.484	17544	8	8.200	5.374	17616	24	25.494	7.020
17344	36	19.596	24.366		17473	10	14.850	2.522	17545	20	13.686	5.160	17617	13	0.823	8.636
17345	26	20.215	24.719		17474	8	15.197	2.546	17546	8	13.856	5.519	17618	19	1.535	8.682
17346	8	20.540	24.649		17475	8	15.312	2.088	17547	22	14.138	5.451	17619	8	2.444	8.130
17347	14	20.764	24.658		17476	21	15.628	2.980	17548	12	14.766	5.518	17620	8	4.341	8.666
17348	11	21.776	24.249		17477	10	16.391	2.836	17549	14	14.770	5.180	17621*	45	4.469	8.110
17349	8	22.814	24.743		17478	21	16.796	2.225	17550	8	15.668	5.220	17622	8	5.856	8.654
17350	29	23.312	24.910		17479	10	16.907	2.521	17551	12	16.710	5.330	17623	15	8.647	8.247
17351	13	24.092	24.225		17480	16	17.271	2.746	17552	9	16.776	5.040	17624	8	8.912	8.229
17352	33	24.356	24.612		17481	35	24.379	2.568	17553	10	18.058	5.832	17625	24	11.637	8.460
17353	13	24.679	24.532		17482	18	0.104	3.184	17554	12	18.617	5.333	17626	18	12.574	8.914
17354	45	1.350	25.878		17483	13	1.176	3.333	17555	14	18.884	5.704	17627	8	14.246	8.253
17355	19	1.626	25.390		17484	8	1.279	3.814	17556	8	19.315	5.050	17628	25	15.218	8.565
17356	22	2.072	25.563		17485	20	1.980	3.863	17557	24	20.400	5.240	17629*	26	15.236	8.046
17357	19	3.104	25.510		17486	15	3.309	3.027	17558*	86	20.674	5.008	17630	8	15.734	8.980
17358	10	6.070	25.701		17487	11	4.459	3.430	17559	12	20.678	5.564	17631	22	16.266	8.552
17359	8	7.084	25.699		17488	19	5.580	3.611	17560	8	21.372	5.282	17632	11	17.121	8.158
17360	20	9.706	25.918		17489	10	5.734	3.388	17561	38	22.042	5.209	17633	18	17.298	8.212
17361	9	9.740	25.468		17490	10	6.408	3.160	17562	18	22.186	5.912	17634	8	18.316	8.248
17362	17	12.755	25.370		17491	15	7.362	3.610	17563	8	23.168	5.988	17635*	35	20.530	8.691
17363	11	13.010	25.531		17492	8	7.451	3.627	17564	11	23.873	5.620	17636	14	20.832	8.907
17364	22	13.284	25.774		17493	12	7.754	3.466	17565	8	24.802	5.580	17637	8	22.200	8.918
17365	9	14.145	25.915		17494	8	7.908	3.900	17566	26	0.520	6.698	17638	8	22.290	8.016
17366	8	15.104	25.196		17495	17	8.227	3.618	17567	17	1.951	6.746	17639	8	22.630	8.070
17367	9	16.374	25.032		17496	21	10.450	3.964	17568	26	3.032	6.424	17640	13	25.290	8.304
17368	30	16.992	25.276		17497	11	10.575	3.540	17569	18	3.626	6.758	17641	10	25.576	8.805
17369	22	17.026	25.840		17498*	29	11.999	3.420	17570	12	3.734	6.919	17642	8	1.721	9.110
17370	13	17.732	25.365		17499	10	13.438	3.981	17571	16	3.869	6.374	17643	13	2.360	9.234
17371	8	18.954	25.548		17500	9	15.033	3.197	17572	18	4.298	6.190	17644	14	3.703	9.502
17372	36	19.454	25.852		17501*	40	15.038	3.011	17573	15	5.346	6.964	17645	12	4.438	9.506
17373	14	19.516	25.668		17502	8	15.451	3.418	17574	18	6.224	6.281	17646	13	4.536	9.666
17374	21	19.528	25.694		17503	8	15.952	3.172	17575	14	7.178	6.956	17647	23	5.296	9.812
17375	8	19.884	25.570		17504	34	16.697	3.636	17576	10	9.153	6.400	17648	11	6.104	9.885
17376	10	20.192	25.143		17505	9	16.864	3.126	17577	18	10.525	6.348	17649	10	7.346	9.024
17377	23	20.988	25.722		17506	23	17.232	3.137	17578	8	10.544	6.611	17650	10	8.718	9.986
17378	26	21.568	25.212		17507*	33	17.697	3.676	17579	8	12.401	6.530	17651	8	9.046	9.645
17379	29	21.802	25.311		17508	16	18.938	3.590	17580	8	14.214	6.494	17652	11	9.720	9.720
17380	20	22.800	25.994		17509	9	21.598	3.912	17581	13	14.469	6.498	17653	13	9.754	9.220
17381	8	23.234	25.428		17510	8	21.836	3.436	17582	11	15.676	6.720	17654	9	11.157	9.613
17382	9	23.352	25.970		17511	22	1.905	4.175	17583	9	15.724	6.733	17655*	42	11.388	9.590
17383	60	23.400	25.770		17512	10	2.538	4.558	17584	21	16.936	6.394	17656	9	15.000	9.723
17384	12	24.263	25.440		17513	11	4.074	4.368	17585	29	17.048	6.358	17657	10	15.974	9.905
17385	17	24.889	25.932		17514	18	5.393	4.508	17586	15	17.616	6.543	17658	8	17.991	9.530
17386	11	25.611	25.354		17515	17	9.086	4.546	17587	22	18.346	6.948	17659	8	18.362	9.070
17387	12	25.640	25.609		17516	8	10.172	4.906	17588	8	19.096	6.618	17660	8	19.234	9.316
					17517	10	10.514	4.140	17589	9	19.362	6.524	17661	10	19.430	

17672	12	6.178	10.152	17744	8	15.047	12.220	17816	10	2.124	15.638	17888	8	19.482	17.637	17960*	8	22.319	20.307
17673	17	6.317	10.418	17745	22	15.781	12.190	17817	18	2.456	15.354	17889	17	20.050	17.530	17961	9	23.023	20.528
17674*	28	6.348	10.402	17746	8	16.585	12.676	17818	10	3.984	15.898	17890	22	20.418	17.638	17962	8	23.058	20.841
17675	9	8.038	10.642	17747	8	17.192	12.120	17819	13	5.332	15.895	17891	8	21.283	17.868	17963	8	23.732	20.089
17676	17	8.250	10.926	17748	12	18.190	12.410	17820	9	5.691	15.212	17892	19	21.307	17.254	17964	16	24.370	20.280
17677	18	9.676	10.922	17749	12	19.456	12.248	17821	8	5.738	15.962	17893	8	22.342	17.760	17965	9	0.001	21.834
17678	15	12.804	10.076	17750	22	19.989	12.260	17822	9	5.990	15.862	17894	8	23.353	17.408	17966	8	0.124	21.060
17679	19	13.136	10.500	17751	20	20.988	12.398	17823	22	6.448	15.728	17895	9	23.644	17.072	17967	20	2.927	21.905
17680	15	19.624	10.958	17752	8	22.699	12.862	17824	11	6.620	15.802	17896	11	24.192	17.430	17968	22	5.612	21.270
17681	8	19.988	10.432	17753	11	23.662	12.210	17825*	63	6.938	15.962	17897	16	24.472	17.461	17969	12	8.332	21.641
17682	8	21.354	10.586	17754	18	0.779	13.668	17826	12	9.776	15.948	17898	14	24.652	17.882	17970*	32	8.812	21.930
17683	8	22.578	10.650	17755*	23	0.984	13.429	17827	17	9.810	15.204	17899	33	24.940	17.628	17971	19	10.037	21.962
17684	8	22.765	10.548	17756	17	1.573	13.598	17828	24	9.858	15.992	17900	17	0.612	18.890	17972	13	10.354	21.310
17685	8	24.230	10.030	17757	19	1.760	13.416	17829	9	9.931	15.170	17901	32	1.651	18.188	17973*	35	10.661	21.221
17686	8	24.244	10.286	17758	11	5.346	13.079	17830	10	12.660	15.966	17902*	26	5.059	18.478	17974	17	10.676	21.299
17687	14	25.488	10.916	17759	8	5.631	13.868	17831	8	12.855	15.936	17903	8	8.220	18.598	17975	20	15.990	21.471
17688	9	25.864	10.142	17760	8	8.116	13.300	17832	8	13.066	15.871	17904	13	8.626	18.927	17976	10	16.176	21.869
17689	9	0.078	11.653	17761	8	9.817	13.938	17833	12	16.165	15.686	17905	8	8.806	18.302	17977	15	16.586	21.340
17690	19	0.505	11.486	17762	9	11.796	13.568	17834	8	18.020	15.830	17906	12	10.262	18.198	17978	8	17.953	21.121
17691	10	1.116	11.955	17763	8	12.820	13.028	17835	22	18.635	15.706	17907	9	11.085	18.228	17979	9	19.300	21.501
17692	8	1.376	11.994	17764	9	13.028	13.280	17836	8	19.646	15.668	17908	11	12.394	18.094	17980	12	20.738	21.510
17693	16	2.009	11.732	17765*	34	15.284	13.796	17837	9	19.782	15.902	17909	23	13.032	18.830	17981	12	20.898	21.011
17694	9	2.978	11.262	17766*	37	15.728	13.078	17838	10	20.058	15.841	17910	8	13.537	18.880	17982	8	20.918	21.885
17695	13	3.482	11.946	17767	13	15.767	13.835	17839	20	21.152	15.156	17911	21	17.228	18.652	17983	8	22.825	21.938
17696	11	4.113	11.080	17768	8	16.140	13.590	17840	8	23.134	15.099	17912	8	17.380	18.633	17984	10	22.858	21.346
17697	21	5.753	11.199	17769	14	16.620	13.902	17841	26	23.634	15.572	17913	10	17.406	18.012	17985	12	22.872	21.660
17698	25	6.521	11.561	17770	21	17.091	13.040	17842	11	23.954	15.528	17914	15	17.442	18.217	17986	8	24.123	21.820
17699	8	6.830	11.515	17771	8	17.135	13.794	17843	8	24.698	15.112	17915	8	17.579	18.407	17987	10	24.295	21.316
17700	16	7.087	11.584	17772	23	17.651	13.262	17844	8	25.214	15.884	17916	19	19.370	18.591	17988	20	24.444	21.665
17701	10	9.933	11.747	17773	9	18.786	13.399	17845	11	25.461	15.183	17917	16	19.581	18.774	17989	15	25.376	21.784
17702	8	10.186	11.633	17774	13	19.706	13.752	17846*	41	0.838	16.643	17918*	40	21.958	18.594	17990	10	25.588	21.750
17703	14	11.654	11.108	17775	8	20.832	13.226	17847	9	1.246	16.830	17919	20	22.148	18.202	17991	8	0.938	22.912
17704	16	12.165	11.910	17776	8	22.004	13.426	17848	12	2.691	16.242	17920	19	22.238	18.354	17992	8	1.692	22.248
17705	8	12.819	11.365	17777	8	23.534	13.659	17849	9	4.365	16.810	17921*	29	22.903	18.044	17993	8	4.883	22.603
17706	9	13.620	11.700	17778	16	24.228	13.338	17850	22	6.332	16.256	17922	8	23.164	18.486	17994*	34	6.490	22.403
17707	21	14.218	11.688	17779	8	25.076	13.754	17851	9	6.978	16.861	17923	22	24.990	18.618	17995*	54	6.566	22.437
17708	8	15.298	11.550	17780	12	25.562	13.794	17852	8	7.960	16.210	17924	29	0.106	19.372	17996*	27	6.957	22.452
17709	16	15.979	11.990	17781	23	25.672	13.660	17853	8	7.995	16.620	17925	9	0.558	19.246	17997	12	7.028	22.917
17710	8	16.030	11.630	17782	8	25.968	13.379	17854	12	9.961	16.934	17926	10	1.713	19.160	17998	11	7.029	22.801
17711	8	16.440	11.995	17783	8	0.106	14.602	17855	8	11.384	16.100	17927	8	3.780	19.506	17999	12	8.234	22.750
17712	12	16.449	11.082	17784	8	3.804	14.608	17856	11	11.720	16.320	17928*	23	4.794	19.326	18000	18	8.515	22.170
17713	8	16.508	11.359	17785*	33	5.924	14.240	17857	32	13.226	16.202	17929	11	4.952	19.173	18001	9	8.579	22.356
17714	21	18.614	11.408	17786	15	6.040	14.172	17858	27	14.418	16.132	17930*	27	6.396	19.386	18002	21	9.458	22.885
17715	15	18.775	11.430	17787	18	9.540	14.298	17859	12	14.670	16.347	17931	14	9.655	19.092	18003	9	11.539	22.912
17716	13	18.856	11.607	17788	12	9.614	14.389	17860	8	15.369	16.523	17932*	47	15.658	19.173	18004	9	11.780	22.642
17717	8	19.406	11.182	17789	24	11.054	14.160	17861	10	16.204	16.409	17933	24	16.692	19.769	18005	8	12.433	22.420
17718*	41	19.825	11.170	17790	23	11.172	14.796	17862	18	19.698	16.326	17934	12	17.244	19.928	18006	12	12.662	22.010
17719*	44	20.310	11.678	17791	8	12.049	14.162	17863	17	20.218	16.930	17935*	45	17.792	19.720	18007	8	13.700	22.311
17720	9	20.343	11.880	17792	11	12.526	14.867	17864	16	20.846	16.478	17936	13	20.666	19.168	18008	11	17.871	22.940
17721	13	20.344	11.658	17793	17	12.624	14.220	17865	10	21.620	16.086	17937	30	21.362	19.496	18009	14	18.614	22.450
17722	14	20.928	11.299	17794	18	13.130	14.971	17866	20	22.000	16.180	17938	8	22.109	19.461	18010	8	18.752	22.754
17723	8	21.361	11.124	17795	11	13.457	14.334	17867	20	22.934	16.291	17939	12	22.187	19.915	18011*	41	19.171	22.192
17724	9	21.692	11.725	17796	21	13.458	14.398	17868	8	24.048	16.130	17940	14	22.459	19.037	18012	20	19.461	22.683
17725	23	21.920	11.370	17797	18	16.280	14.164	17869	10	24.344	16.758	17941	9	24.207	19.202	18013	9	19.562	22.660
17726	18	24.310	11.918	17798	10	16.458	14.039	17870	8	24.587	16.388	17942	14	24.448	19.362	18014	10	20.853	22.924
17727	20	24.975	11.458	17799	11	17.448	14.426	17871	14	0.730	17.026	17943	8	24.737	19.400	18015	12	21.398	22.881
17728	10	25.246	11.636	17800	8	19.383	14.198	17872	12	3.016	17.071	17944	8	0.388	20.948	18016	27	21.501	22.936
17729	11	1.772	12.306	17801	8	19.794	14.972	17873	14	3.271	17.657	17945	21	1.196	20.104	18017	10	24.444	22.673
17730	8	3.123	12.734	17802	21	19.838	14.818	17874	10	3.845	17.892	17946	8	1.440	20.150	18018	8	25.657	22.302
17731	11	3.138	12.326	17803*	29	20.590	14.456	17875	15	5.524	17.046	17947	10	1.916	20.851	18019	9	2.403	23.088
17732	9	3.562	12.306	17804	14	21.118	14.587	17876	17	5.582	17.380	17948	20	2.104	20.930	18020*	45	3.638	23.350
17733	9	3.880	12.167	17805	24	21.820	14.236	17877	10	10.447	17.232	17949	24	6.329	20.378	18021	8	4.154	23.416
17734	20	4.318	12.601	17806	9</														

18032	8	11.830	23.010	R.A. 7^h 20^m Plate 442; 1915 Jan. 12. <i>Provisional Constants.</i> A B C -01746 +01339 -1428 D E F -01324 -01788 +3115 Mag. = 16.3 - 1.10√d	18156	10	9.676	3.824	18228	8	16.828	6.435	18300	9	8.698	9.574
18033	14	12.887	23.675		18157	16	9.856	3.094	18229	17	17.046	6.936	18301	8	9.286	9.546
18034	16	13.790	23.623		18158*	86	11.090	3.725	18230	8	18.550	6.401	18302	14	9.896	9.750
18035	13	15.392	23.756		18159	9	12.348	3.746	18231	8	18.764	6.306	18303	8	12.349	9.529
18036	9	15.634	23.760		18160	8	14.123	3.634	18232	15	19.926	6.848	18304	10	13.105	9.312
18037	8	16.132	23.583		18161	8	15.934	3.103	18233	8	20.212	6.942	18305	11	14.004	9.858
18038	8	16.478	23.030		18162	8	20.346	3.160	18234	8	20.931	6.533	18306	8	14.120	9.126
18039	13	17.830	23.570		18163	8	20.735	3.355	18235	8	21.155	6.052	18307	8	14.565	9.413
18040	16	23.590	23.672		18164	8	21.593	3.183	18236	12	23.297	6.184	18308	8	14.586	9.384
18041	14	25.118	23.654		18165	8	25.778	3.832	18237	18	3.062	7.306	18309	11	14.594	9.112
18042	13	25.592	23.976	No. d x y 18101 8 1.952 0.646 18102 9 5.772 0.944 18103 8 5.820 0.676 18104 8 7.667 0.120 18105 10 9.153 0.825 18106 8 9.175 0.786 18107 8 16.879 0.230 18108 8 17.600 0.898 18109 8 25.396 0.336 18110 12 1.697 1.159 18111 12 2.174 1.597 18112 17 3.349 1.724 18113 8 8.239 1.836 18114 38 8.861 1.068 18115 8 9.114 1.768 18116 13 9.134 1.937 18117 8 9.780 1.381 18118 8 11.180 1.083 18119 11 13.224 1.614 18120* 22 14.904 1.494 18121* 38 16.505 1.139 18122 17 16.609 1.723 18123 8 17.432 1.247 18124 9 18.642 1.346 18125 10 19.770 1.850 18126 28 22.632 1.016 18127 10 23.783 1.924 18128 9 25.310 1.010 18129 33 1.863 2.874 18130 15 6.017 2.932 18131 8 6.300 2.544 18132 8 7.378 2.220 18133 10 8.148 2.376 18134 12 9.126 2.283 18135 14 11.039 2.537 18136 8 12.500 2.635 18137 11 12.664 2.729 18138 20 13.003 2.829 18139 8 13.371 2.100 18140 11 13.806 2.604 18141 8 14.098 2.552 18142 8 14.566 2.122 18143 9 16.693 2.050 18144 12 17.626 2.037 18145 8 17.765 2.072 18146* 24 17.746 2.782 18147* 28 19.064 2.425 18148 12 19.200 2.500 18149 12 20.112 2.444 18150 17 24.035 2.388 18151 8 5.354 3.439 18152 8 6.330 3.277 18153 8 6.335 3.046 18154 8 7.314 3.097 18155 14 9.503 3.352	18166	8	0.336	4.398	18238	21	3.996	7.890	18310	20	14.750	9.883
18043	8	1.820	24.366		18167	8	7.676	4.994	18239	18	5.266	7.224	18311	12	15.580	9.894
18044	23	2.090	24.747		18168	8	9.678	4.064	18240	9	7.572	7.398	18312	13	16.314	9.820
18045	12	2.416	24.664		18169	9	10.287	4.884	18241	25	7.618	7.389	18313	8	18.075	9.629
18046	11	4.618	24.883		18170	11	10.430	4.776	18242	8	8.982	7.940	18314	10	18.521	9.446
18047	17	4.900	24.729		18171	10	11.078	4.980	18243	11	9.081	7.080	18315	8	18.915	9.768
18048	8	5.706	24.866		18172	8	11.392	4.414	18244	9	9.215	7.486	18316	10	20.223	9.342
18049	14	7.391	24.766		18173	8	11.872	4.362	18245*	57	9.236	7.982	18317	8	21.187	9.800
18050	8	7.486	24.687		18174	8	12.483	4.466	18246	8	10.154	7.352	18318	8	21.282	9.428
18051	9	7.880	24.341		18175	8	12.963	4.949	18247*	23	10.842	7.417	18319	9	21.297	9.656
18052	16	10.583	24.492		18176	10	13.148	4.568	18248	8	11.180	7.428	18320	8	23.288	9.492
18053	18	10.828	24.590		18177	8	15.011	4.676	18249	10	11.322	7.296	18321	8	24.100	9.512
18054	8	11.242	24.502		18178	8	15.928	4.288	18250	8	11.424	7.162	18322	8	25.512	9.612
18055	19	12.556	24.438		18179	16	16.644	4.996	18251	18	14.570	7.504	18323	8	1.848	10.338
18056	24	14.499	24.868		18180	8	17.571	4.750	18252	14	14.904	7.232	18324	8	1.864	10.594
18057	22	14.696	24.160		18181	9	18.824	4.729	18253*	38	15.874	7.239	18325	8	3.482	10.420
18058	14	16.921	24.313		18182	18	19.801	4.564	18254	8	15.895	7.063	18326	20	3.954	10.240
18059	12	18.642	24.578		18183	18	21.204	4.372	18255	25	16.051	7.414	18327	13	4.945	10.946
18060	14	19.284	24.344		18184	8	22.324	4.772	18256	10	21.599	7.027	18328	8	5.402	10.969
18061	14	19.511	24.542		18185	13	22.466	4.801	18257	8	21.850	7.576	18329	15	7.125	10.658
18062	8	20.314	24.822		18186	11	23.414	4.036	18258	8	24.267	7.926	18330	12	8.010	10.625
18063	23	20.618	24.598		18187	8	25.728	4.501	18259	11	24.777	7.894	18331	19	8.646	10.113
18064	10	22.168	24.777		18188	54	25.864	4.634	18260	8	25.375	7.109	18332	8	8.872	10.704
18065	12	23.574	24.050		18189	8	0.356	5.084	18261	11	2.876	8.594	18333	8	9.238	10.662
18066	14	24.818	24.627		18190	8	1.412	5.933	18262	8	5.225	8.916	18334	8	9.856	10.372
18067	19	25.698	24.333		18191	8	2.343	5.877	18263*	39	6.143	8.721	18335	9	12.948	10.046
18068	23	1.051	25.063		18192	11	5.930	5.654	18264	21	6.224	8.216	18336	8	13.254	10.992
18069	50	1.148	25.913		18193	8	6.074	5.975	18265*	52	6.822	8.528	18337	20	13.347	10.166
18070	8	2.013	25.578		18194	8	6.366	5.506	18266	8	7.352	8.126	18338	12	14.408	10.560
18071	8	7.898	25.979		18195	8	7.150	5.577	18267	9	8.283	8.936	18339	8	14.552	10.884
18072	17	9.717	25.383		18196	8	7.259	5.814	18268*	40	8.363	8.658	18340	8	14.582	10.471
18073	9	10.091	25.870		18197	20	7.656	5.755	18269	10	8.608	8.522	18341	8	14.591	10.832
18074	21	10.456	25.574		18198	9	11.112	5.476	18270	10	8.780	8.127	18342	18	14.879	10.890
18075*	32	13.018	25.083		18199	8	11.620	5.706	18271	8	9.650	8.044	18343	12	15.174	10.236
18076	8	13.405	25.539		18200	22	12.747	5.624	18272	8	11.964	8.390	18344	8	15.238	10.492
18077	8	13.432	25.266		18201	8	13.376	5.551	18273	8	12.154	8.888	18345	8	15.248	10.452
18078	16	14.862	25.320		18202	17	13.840	5.614	18274	8	12.475	8.106	18346	8	15.547	10.931
18079	10	15.070	25.316		18203	8	14.425	5.579	18275	8	12.834	8.825	18347	10	15.852	10.704
18080	8	15.275	25.856		18204	8	17.249	5.723	18276	8	15.646	8.503	18348	8	19.909	10.130
18081	11	16.061	25.870		18205	8	17.317	5.922	18277	8	16.562	8.782	18349	9	22.150	10.606
18082	27	18.738	25.228		18206	18	17.963	5.676	18278	8	17.061	8.580	18350	8	22.929	10.860
18083	25	18.994	25.096		18207	26	20.082	5.614	18279	9	17.161	8.798	18351	15	24.225	10.836
18084	29	19.966	25.800		18208	12	20.614	5.722	18280	8	17.804	8.380	18352	10	24.709	10.660
18085	9	20.034	25.500		18209*	40	20.920	5.046	18281*	40	18.164	8.538	18353	16	2.614	11.750
18086	80	20.165	25.714		18210	23	21.092	5.822	18282	8	18.964	8.138	18354	8	2.886	11.926
18087	8	20.616	25.488		18211	8	21.894	5.205	18283*	94	20.274	8.856	18355	8	3.122	11.201
18088	8	20.740	25.176		18212	13	23.930	5.176	18284	9	20.475	8.024	18356	8	3.682	11.740
18089	10	22.064	25.825		18213	8	1.234	6.324	18285	11	20.888	8.083	18357	8	4.010	11.922
18090	25	22.250	25.450		18214	8	1.322	6.770	18286	8	21.166	8.040	18358	10	4.109	11.066
18091	9	22.592	25.646		18215	20	2.912	6.908	18287	8	21.296	8.787	18359	10	5.570	11.911
18092	15	23.804	25.733		18216	-9	7.165	6.182	18288	8	21.354	8.097	18360*	27	5.946	11.335
18093	20	24.116	25.302		18217	8	7.274	6.664	18289	8	21.417	8.157	18361	8	6.015	11.440
18094	14	24.270	25.948		18218*	54	7.720	6.331	18290	8	22.242	8.174	18362	12	6.975	11.088

18372	8	12.620	11.914	18444	8	25.541	13.766	18516	8	23.754	15.566	18588	8	21.286	17.360	18660	8	23.246	19.699
18373*	30	13.175	11.537	18445*	23	2.236	14.613	18517	19	24.321	15.816	18589	11	21.735	17.674	18661	8	24.864	19.032
18374	8	14.426	11.351	18446	8	2.924	14.642	18518	8	24.958	15.042	18590	10	21.938	17.582	18662	8	24.986	19.556
18375	10	14.468	11.446	18447	8	3.242	14.074	18519	8	25.436	15.037	18591	24	22.873	17.866	18663	20	25.594	19.644
18376	8	14.506	11.478	18448	12	4.786	14.363	18520	9	25.630	15.882	18592	8	23.269	17.368	18664	8	0.817	20.326
18377	11	15.002	11.372	18449	8	5.714	14.802	18521	8	25.759	15.941	18593	12	23.523	17.000	18665	8	0.821	20.850
18378	8	15.158	11.304	18450	14	5.726	14.086	18522	13	0.656	16.624	18594	12	0.002	18.695	18666	12	2.163	20.580
18379	8	16.410	11.021	18451	20	5.902	14.756	18523	8	0.808	16.762	18595	8	0.094	18.100	18667	8	4.268	20.350
18380*	72	17.502	11.944	18452	8	5.946	14.880	18524	8	1.770	16.434	18596	21	0.654	18.373	18668	12	5.048	20.168
18381	8	18.489	11.732	18453	8	6.391	14.775	18525	8	3.867	16.819	18597	8	0.927	18.814	18669	8	6.531	20.869
18382	20	18.919	11.996	18454	8	6.818	14.226	18526	12	3.890	16.301	18598	12	2.402	18.180	18670	8	6.700	20.059
18383	8	20.171	11.532	18455	8	7.680	14.885	18527	10	4.588	16.335	18599	24	2.756	18.912	18671	9	7.653	20.906
18384	8	20.764	11.770	18456	8	9.096	14.960	18528	8	5.583	16.980	18600*	35	4.212	18.126	18672	8	8.974	20.654
18385	20	21.828	11.034	18457*	38	9.950	14.824	18529*	20	5.942	16.364	18601	8	4.316	18.330	18673	10	10.594	20.505
18386	8	22.238	11.272	18458	8	10.105	14.228	18530	8	7.851	16.326	18602	8	5.403	18.429	18674	8	11.660	20.924
18387	8	24.882	11.943	18459	13	11.632	14.476	18531	8	8.561	16.418	18603	8	8.316	18.589	18675	11	11.761	20.306
18388	12	25.200	11.778	18460	16	12.102	14.878	18532	8	8.890	16.352	18604	8	9.273	18.668	18676	12	12.814	20.984
18389	9	1.316	12.523	18461*	87	12.437	14.736	18533	8	9.211	16.862	18605	19	9.450	18.476	18677	8	13.846	20.815
18390	12	1.060	12.222	18462	8	12.601	14.402	18534	8	11.604	16.164	18606	11	9.562	18.870	18678*	33	14.830	20.548
18391	11	3.852	12.672	18463	8	13.306	14.270	18535	9	13.321	16.388	18607	8	9.653	18.540	18679	8	14.872	20.358
18392	8	4.495	12.662	18464	8	13.448	14.437	18536	16	14.248	16.266	18608	20	10.042	18.052	18680	8	15.214	20.892
18393*	23	4.836	12.681	18465	18	15.744	14.274	18537	8	14.277	16.451	18609	8	10.253	18.290	18681	10	16.889	20.327
18394	8	4.882	12.366	18466	9	16.266	14.837	18538	8	17.235	16.826	18610	8	10.272	18.227	18682	8	17.554	20.764
18395	10	8.067	12.457	18467*	82	17.366	14.790	18539	8	18.898	16.814	18611	8	10.419	18.299	18683	8	17.738	20.616
18396	15	9.204	12.309	18468	12	18.420	14.697	18540	10	20.624	16.346	18612	8	13.798	18.841	18684	8	17.967	20.979
18397	12	9.360	12.921	18469	12	18.655	14.590	18541	8	20.805	16.384	18613	27	13.869	18.254	18685	18	18.214	20.637
18398	10	9.670	12.202	18470	8	21.213	14.159	18542	8	20.850	16.369	18614	10	14.933	18.290	18686	11	19.066	20.730
18399	8	9.758	12.621	18471	8	21.422	14.122	18543	8	21.402	16.062	18615	8	16.607	18.501	18687	14	19.984	20.712
18400	11	9.776	12.328	18472	15	22.083	14.252	18544*	86	21.652	16.225	18616	8	16.972	18.985	18688	8	22.054	20.198
18401	8	9.803	12.920	18473	12	22.719	14.819	18545*	42	21.766	16.276	18617	12	17.082	18.756	18689	35	22.820	20.805
18402	9	11.337	12.692	18474	8	23.439	14.835	18546	8	21.786	16.100	18618	8	17.516	18.571	18690	20	22.928	20.753
18403	8	11.536	12.338	18475	11	23.448	14.767	18547	8	22.128	16.506	18619	8	18.218	18.438	18691	8	23.115	20.556
18404	10	12.751	12.786	18476	18	24.621	14.340	18548	8	22.154	16.194	18620	8	19.389	18.784	18692	8	23.604	20.275
18405	8	15.644	12.264	18477	14	25.203	14.573	18549	8	24.099	16.238	18621	11	19.517	18.539	18693	29	23.984	20.461
18406	8	15.647	12.101	18478	8	0.264	15.196	18550	8	24.546	16.314	18622	18	20.646	18.812	18694	8	24.684	20.615
18407	8	15.952	12.635	18479	21	1.347	15.888	18551	8	25.027	16.164	18623	8	20.804	18.148	18695	33	25.114	20.896
18408*	66	17.162	12.146	18480	8	1.664	15.804	18552	29	25.726	16.029	18624	10	21.820	18.757	18696	8	25.816	20.624
18409	12	17.926	12.804	18481	8	2.404	15.412	18553	8	1.098	17.726	18625	10	22.439	18.881	18697	78	25.980	20.676
18410	18	18.446	12.781	18482	10	2.514	15.028	18554	8	1.388	17.393	18626	8	22.782	18.664	18698	8	0.670	21.680
18411	8	18.587	12.074	18483	10	3.166	15.466	18555	8	1.938	17.738	18627	11	22.972	18.464	18699	8	0.688	21.986
18412	25	18.936	12.501	18484	11	3.966	15.662	18556	8	2.074	17.059	18628	8	23.418	18.506	18700	8	0.863	21.166
18413	8	25.041	12.640	18485	8	5.206	15.798	18557	12	2.216	17.763	18629	10	23.894	18.981	18701	8	2.106	21.622
18414	8	25.854	12.028	18486	11	5.308	15.612	18558*	25	2.686	17.920	18630	8	23.931	18.699	18702	20	2.262	21.965
18415	8	0.367	13.197	18487	14	7.450	15.916	18559	8	6.086	17.564	18631	9	0.230	19.370	18703	15	3.897	21.482
18416	10	1.899	13.644	18488	11	8.553	15.696	18560	13	6.164	17.758	18632	8	1.982	19.506	18704	8	3.956	21.044
18417	16	3.352	13.940	18489	8	8.670	15.936	18561	8	7.750	17.244	18633	11	2.227	19.662	18705	8	4.151	21.823
18418	8	3.644	13.660	18490	8	9.302	15.564	18562	13	7.946	17.446	18634	8	2.514	19.694	18706	8	4.454	21.444
18419	8	3.670	13.687	18491	8	10.933	15.375	18563	12	8.062	17.021	18635	11	5.625	19.270	18707	17	4.831	21.687
18420	8	4.489	13.176	18492	21	12.216	15.976	18564	10	8.359	17.087	18636	8	5.606	19.021	18708	10	4.913	21.346
18421	10	4.852	13.885	18493	8	12.374	15.248	18565	8	8.948	17.417	18637	8	7.690	19.805	18709	8	5.113	21.276
18422	8	4.948	13.511	18494	8	12.704	15.282	18566	8	10.204	17.622	18638	14	7.841	19.987	18710	9	5.626	21.714
18423	8	6.334	13.870	18495	20	13.278	15.150	18567	8	10.394	17.533	18639	8	9.986	19.258	18711	9	5.747	21.718
18424	8	7.954	13.850	18496	8	13.722	15.228	18568	8	10.740	17.332	18640	11	10.596	19.162	18712	9	8.506	21.600
18425	8	8.000	13.574	18497	8	14.099	15.509	18569	24	11.464	17.715	18641	14	11.030	19.250	18713	8	8.790	21.197
18426	8	9.433	13.998	18498	8	14.622	15.720	18570	8	11.540	17.836	18642	8	11.952	19.670	18714	11	9.718	21.231
18427	17	10.083	13.141	18499	9	14.781	15.641	18571	8	11.781	17.617	18643	8	12.940	19.900	18715	20	9.912	21.846
18428	10	11.976	13.902	18500	8	14.925	15.632	18572	9	12.112	17.782	18644	8	14.845	19.867	18716*	40	10.584	21.571
18429	12	12.468	13.917	18501	19	15.105	15.220	18573	8	12.229	17.504	18645	8	15.193	19.213	18717	8	10.756	21.404
18430	8	12.567	13.708	18502	23	15.438	15.694	18574	11	13.166	17.260	18646	8	16.350	19.374	18718	8	10.924	21.608
18431	8	12.820	13.704	18503	20	15.796	15.182	18575	8	14.106	17.562	18647	22	18.076	19.050	18719	8	12.407	21.934
18432	10	13.700	13.768	18504	11	16.174	15.380	18576	8	14.417	17.835	18648*	48	18.659	19.413	18720	8	13.959	21.317
18433	8	14.929	13.804	18505	9	16.288	15.531	18577	9	14.597	17.110	18649	9	18.878	19.552	18721	11	15.275	21.334
18434	14	15.447	13.738	18506	17	16.591	15.716	18578	16	15.513	17.724	18650	9	19.01					

18732	8	22.487	21.264	18804	15	8.970	24.612	<div>R.A. 7^h 28^m</div> <div>Plate 477; 1915 Feb. 11.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—01765 +00399 —1403</div> <div>D E F</div> <div>—00393 —01768 +0117</div> <div>Mag. = 15.5 — 1.10√d</div>	18956	8	25.107	1.504	19028	8	21.740	4.220
18733	8	23.002	21.717	18805	8	9.936	24.308		18957	8	25.580	1.188	19029	8	22.338	4.202
18734	8	25.150	21.200	18806	8	10.182	24.774		18958	12	25.808	1.862	19030	8	23.076	4.702
18735	8	25.528	21.346	18807	10	12.248	24.527		18959	23	1.472	2.404	19031	18	25.285	4.254
18736	8	1.945	22.132	18808	8	12.436	24.002		18960*	57	3.793	2.623	19032	8	0.872	5.452
18737	10	2.284	22.974	18809	12	12.496	24.642		18961	9	3.943	2.454	19033	8	0.973	5.200
18738	12	3.196	22.066	18810	8	12.654	24.816		18962	11	4.685	2.908	19034	13	1.371	5.195
18739	8	3.410	22.034	18811	8	13.581	24.927		18963	20	5.508	2.248	19035	10	2.440	5.910
18740	9	4.464	22.700	18812	12	13.602	24.786		18964*	31	6.820	2.926	19036	26	4.380	5.696
18741*	34	5.210	22.814	18813	8	13.697	24.578		18965*	42	7.234	2.310	19037*	37	4.533	5.322
18742*	120	6.852	22.743	18814	8	14.383	24.337	18966	12	7.586	2.616	19038	8	5.424	5.147	
18743	23	7.540	22.540	18815	8	15.169	24.644	18967	13	9.865	2.229	19039	14	6.752	5.509	
18744*	40	7.788	22.878	18816	8	16.470	24.315	18968	8	9.942	2.944	19040	14	7.082	5.422	
18745	11	8.768	22.674	18817	8	17.263	24.014	18969	13	12.044	2.415	19041	8	12.204	5.704	
18746	8	9.903	22.169	18818	26	17.860	24.334	18970	8	12.664	2.814	19042	8	12.474	5.668	
18747	8	10.392	22.966	18819	11	18.342	24.580	18971	15	12.840	2.707	19043	8	12.935	5.354	
18748	9	10.844	22.096	18820	13	18.502	24.842	18972	11	14.986	2.450	19044	8	13.284	5.354	
18749	8	11.559	22.306	18821	8	18.722	24.972	18973	9	16.860	2.544	19045	11	13.964	5.627	
18750	8	11.686	22.190	18822	11	18.809	24.626	18974	11	19.044	2.682	19046	9	14.562	5.830	
18751	35	11.884	22.952	18823	10	21.072	24.754	18975	8	22.652	2.651	19047	8	14.564	5.600	
18752	8	12.676	22.472	18824	8	21.607	24.876	18976	8	23.172	2.420	19048	9	15.184	5.572	
18753	9	13.609	22.132	18825	25	21.680	24.110	18977	13	23.706	2.498	19049	8	17.314	5.727	
18754	8	13.733	22.206	18826	8	21.900	24.234	18978	9	25.586	2.030	19050	13	18.724	5.556	
18755*	34	13.852	22.636	18827	9	23.080	24.736	18979	13	25.894	2.462	19051	9	18.722	5.746	
18756*	93	14.166	22.518	18828	8	0.046	25.113	18980	8	0.752	3.306	19052	11	19.263	5.502	
18757	10	15.391	22.846	18829	20	0.136	25.780	18909*	23	10.188	0.700	19053	9	19.280	5.509	
18758	8	17.038	22.952	18830	8	0.486	25.981	18910	13	10.218	0.510	19054	12	19.502	5.145	
18759	9	17.638	22.303	18831	22	2.002	25.608	18911*	51	10.234	0.788	19055	8	19.568	5.660	
18760	10	18.043	22.564	18832	8	2.438	25.454	18912	8	10.299	0.466	19056	9	19.729	5.116	
18761	8	18.261	22.140	18833	8	2.453	25.391	18913*	26	10.376	0.818	19057	10	20.416	5.124	
18762	22	18.424	22.368	18834	11	2.644	25.322	18914	10	11.412	0.817	19058	10	20.806	5.884	
18763	11	19.216	22.870	18835*	69	2.720	25.342	18915	12	13.110	0.892	19059	10	21.753	5.724	
18764	8	21.266	22.270	18836	32	4.520	25.905	18916	8	13.168	0.386	19060	9	22.624	5.766	
18765	8	21.848	22.897	18837	8	4.832	25.789	18917	9	13.727	0.230	19061	8	22.874	5.214	
18766	22	22.122	22.164	18838	8	4.947	25.409	18918	9	15.516	0.806	19062	8	23.344	5.458	
18767	8	23.318	22.583	18839	28	5.088	25.048	18919	12	15.724	0.574	19063	8	23.616	5.544	
18768	8	23.888	22.434	18840	8	6.204	25.280	18920	16	15.900	0.713	19064	15	0.737	6.202	
18769	8	25.384	22.021	18841	16	6.459	25.738	18921	8	18.621	0.437	19065	8	1.320	6.068	
18770	8	1.401	23.546	18842	9	7.500	25.892	18922	8	20.352	0.742	19066	8	2.322	6.064	
18771	10	1.444	23.986	18843	11	8.200	25.898	18923	20	20.865	0.404	18995	19	20.210	3.544	
18772	8	1.699	23.584	18844	8	8.397	25.133	18924	8	21.758	0.656	18996*	38	20.648	3.094	
18773	8	2.974	23.944	18845	13	8.648	25.888	18925	8	22.018	0.212	18997	12	20.780	3.245	
18774	29	5.336	23.894	18846	8	8.955	25.232	18926*	23	22.172	0.186	18998	8	21.616	3.172	
18775	8	9.624	23.406	18847	13	8.968	25.853	18927*	40	23.310	0.574	18999	8	23.428	3.777	
18776	12	10.602	23.120	18848	8	9.052	25.942	18928	8	24.070	0.438	19000	8	23.749	3.477	
18777	12	10.653	23.965	18849	30	9.634	25.684	18929	9	24.382	0.944	19001*	25	23.826	3.635	
18778	9	12.242	23.490	18850	12	10.655	25.978	18930	22	0.067	1.033	19002	12	25.099	3.310	
18779	8	12.696	23.097	18851	12	11.186	25.046	18931	12	1.220	1.936	19003	8	25.100	3.644	
18780	8	13.423	23.781	18852	18	12.529	25.740	18932	9	2.752	1.024	19004	8	25.664	3.086	
18781	9	15.378	23.147	18853	15	13.229	25.908	18933	8	2.860	1.060	19005	13	0.852	4.050	
18782	14	18.276	23.318	18854	12	13.236	25.178	18934	13	3.872	1.736	19006	8	3.168	4.506	
18783	25	19.982	23.007	18855	10	13.744	25.582	18935	8	4.204	1.602	19007*	36	3.300	4.644	
18784	33	20.280	23.217	18856	8	14.278	25.377	18936	14	6.417	1.844	19008	19	3.545	4.342	
18785	29	20.747	23.344	18857	8	14.828	25.920	18937	11	6.764	1.802	19009	13	4.070	4.506	
18786	8	22.002	23.027	18858	8	14.834	25.192	18938	9	9.208	1.084	19010*	25	4.856	4.420	
18787	8	22.036	23.842	18859	28	15.066	25.331	18939	29	9.850	1.304	19011*	32	5.416	4.816	
18788	8	22.206	23.059	18860	14	15.940	25.653	18940	16	11.084	1.634	19012	10	5.492	4.022	
18789*	77	23.219	23.590	18861	8	15.975	25.020	18941*	29	13.880	1.066	19013	9	6.060	4.582	
18790	24	25.800	23.461	18862	8	16.302	25.740	18942	8	14.772	1.532	19014	11	7.744	4.966	
18791	8	25.891	23.502	18863	8	19.912	25.900	18943*	32	15.578	1.632	19015	8	8.349	4.409	
18792	8	1.437	24.364	18864	8	20.594	25.743	18944	12	15.986	1.765	19016*	24	12.488	4.412	

19100	8	6.241	7.850	19172	11	18.602	9.229	19244	11	5.944	12.126	19316	8	24.164	14.882	19388	15	9.658	17.704
19101	15	7.416	7.328	19173	8	19.238	9.130	19245	19	9.437	12.308	19317	8	25.250	14.230	19389	12	10.254	17.026
19102	8	8.214	7.758	19174	8	19.688	9.214	19246	10	10.422	12.794	19318	8	1.038	15.949	19390	8	11.548	17.916
19103	8	9.941	7.538	19175*	28	20.808	9.270	19247	8	11.064	12.741	19319	9	1.206	15.586	19391	10	16.115	17.026
19104	26	10.186	7.556	19176	10	21.314	9.775	19248	8	11.160	12.760	19320	21	1.776	15.836	19392	26	16.212	17.368
19105	12	11.906	7.086	19177*	33	22.868	9.219	19249	12	11.716	12.199	19321	8	2.410	15.058	19393	8	16.792	17.607
19106	8	13.139	7.746	19178	14	23.102	9.299	19250	14	14.548	12.293	19322	9	2.892	15.056	19394	12	18.314	17.498
19107	8	13.599	7.451	19179	8	24.933	9.354	19251	9	16.356	12.986	19323	11	3.088	15.896	19395	11	19.272	17.518
19108	12	13.882	7.582	19180	8	25.957	9.434	19252	8	17.122	12.808	19324	8	3.212	15.956	19396	10	19.274	17.394
19109	11	15.691	7.202	19181	8	0.373	10.880	19253	9	17.878	12.807	19325	12	4.647	15.331	19397	9	20.045	17.124
19110	8	16.226	7.340	19182	8	0.646	10.067	19254	22	19.812	12.934	19326*	32	4.718	15.827	19398	8	21.394	17.324
19111	8	16.726	7.814	19183	16	1.672	10.856	19255	8	21.440	12.277	19327*	14	5.118	15.410	19399	10	21.427	17.586
19112*	29	17.062	7.961	19184	12	2.156	10.677	19256	10	22.476	12.418	19328*	43	6.728	15.401	19400	11	21.686	17.949
19113	8	17.902	7.424	19185	8	4.796	10.147	19257	9	23.914	12.026	19329*	8	7.831	15.733	19401	8	0.242	18.678
19114	8	18.202	7.412	19186*	28	5.622	10.327	19258	8	24.324	12.646	19330	8	8.994	15.195	19402	13	0.430	18.482
19115	11	18.728	7.194	19187	10	5.648	10.999	19259	20	0.226	13.674	19331	23	9.720	15.922	19403	8	1.354	18.996
19116	11	19.435	7.692	19188	15	8.485	10.239	19260	9	1.595	13.044	19332	15	13.258	15.426	19404	9	1.390	18.719
19117	15	19.676	7.328	19189	11	8.840	10.089	19261	8	1.944	13.104	19333	8	14.345	15.654	19405	11	4.348	18.238
19118	16	19.793	7.310	19190*	26	8.966	10.375	19262	8	7.850	13.442	19334	9	15.050	15.732	19406	15	4.884	18.878
19119	15	20.726	7.426	19191	8	9.715	10.783	19263*	26	8.223	13.370	19335	10	16.824	15.594	19407	11	6.650	18.892
19120	8	20.962	7.884	19192	13	9.978	10.968	19264	20	8.658	13.516	19336	12	17.048	15.166	19408	8	6.785	18.536
19121	10	21.466	7.280	19193	12	10.494	10.877	19265	10	9.422	13.232	19337	10	17.461	15.516	19409	16	9.030	18.529
19122	14	21.484	7.680	19194	9	12.338	10.804	19266	23	10.894	13.134	19338	10	17.486	15.964	19410	19	10.747	18.628
19123	8	23.163	7.351	19195	8	14.662	10.192	19267*	45	12.558	13.182	19339	26	19.272	15.496	19411	11	10.758	18.624
19124*	37	23.244	7.864	19196	15	14.902	10.710	19268*	26	13.643	13.200	19340	9	22.276	15.553	19412	23	11.513	18.775
19125	10	23.290	7.816	19197*	26	16.100	10.450	19269	17	13.810	13.786	19341	9	22.986	15.645	19413	10	12.109	18.404
19126	8	23.399	7.212	19198	8	16.720	10.338	19270	8	14.263	13.223	19342	10	23.128	15.638	19414	12	12.176	18.851
19127	8	25.424	7.562	19199	10	17.048	10.200	19271	8	16.839	13.298	19343	8	23.751	15.234	19415	11	12.700	18.558
19128	11	1.105	8.562	19200	11	18.025	10.362	19272	8	19.039	13.906	19344	12	24.212	15.608	19416*	21	12.723	18.977
19129	9	4.559	8.796	19201	12	18.150	10.900	19273	8	19.122	13.494	19345	9	1.544	16.358	19417	15	13.758	18.014
19130	10	5.528	8.318	19202	8	18.422	10.927	19274	8	20.516	13.710	19346	9	1.550	16.254	19418	8	13.800	18.150
19131	12	6.256	8.086	19203	12	18.464	10.144	19275	10	20.531	13.395	19347	8	2.001	16.331	19419	8	15.286	18.940
19132	10	6.813	8.400	19204	8	19.484	10.470	19276	13	20.785	13.440	19348	8	2.482	16.180	19420	8	15.630	18.576
19133*	30	7.387	8.472	19205	15	19.940	10.590	19277	10	20.937	13.348	19349	8	3.168	16.283	19421	8	18.376	18.276
19134	8	8.106	8.419	19206	8	21.166	10.696	19278	10	21.350	13.722	19350	29	3.184	16.046	19422	8	19.410	18.276
19135	8	9.272	8.806	19207	24	21.662	10.908	19279	8	21.661	13.490	19351	10	3.684	16.930	19423	8	22.188	18.434
19136	10	11.372	8.400	19208	8	23.590	10.258	19280	8	21.788	13.574	19352	22	4.652	16.415	19424	12	22.335	18.060
19137	12	11.508	8.548	19209	9	24.287	10.078	19281	10	22.674	13.942	19353	12	4.851	16.655	19425	8	23.034	18.696
19138	8	12.160	8.245	19210	8	2.204	11.978	19282	8	23.520	13.624	19354	10	6.367	16.876	19426	8	23.162	18.370
19139	26	12.522	8.585	19211	9	2.330	11.960	19283	13	24.261	13.194	19355	10	7.369	16.843	19427	13	23.251	18.060
19140	8	13.412	8.964	19212	13	2.649	11.795	19284	9	24.280	13.582	19356	10	7.730	16.640	19428	8	23.474	18.430
19141	9	13.901	8.858	19213	14	4.808	11.459	19285	8	25.568	13.969	19357	10	7.804	16.519	19429	12	24.626	18.694
19142*	34	14.670	8.114	19214	8	5.657	11.958	19286	15	0.173	14.841	19358	8	7.903	16.849	19430	8	24.977	18.887
19143	8	14.770	8.792	19215	8	6.214	11.010	19287	8	0.418	14.058	19359	10	8.530	16.474	19431	15	0.032	19.024
19144	13	14.797	8.799	19216	8	6.338	11.852	19288	8	0.890	14.854	19360	15	8.964	16.969	19432	12	0.588	19.822
19145	22	16.228	8.365	19217	9	6.938	11.605	19289	10	0.902	14.789	19361	21	11.101	16.921	19433	11	2.323	19.044
19146	8	16.952	8.386	19218	12	7.794	11.746	19290	8	1.702	14.212	19362	20	11.690	16.788	19434	9	2.444	19.571
19147	8	17.176	8.936	19219	11	8.613	11.833	19291	20	2.073	14.360	19363*	56	12.242	16.326	19435	23	3.056	19.661
19148	15	17.545	8.414	19220	8	11.896	11.172	19292	15	2.651	11.590	19364	8	13.419	16.670	19436	8	3.776	19.212
19149	11	18.224	8.003	19221	8	13.336	11.484	19293	17	3.831	14.650	19365	10	13.742	16.713	19437	20	4.100	19.610
19150	8	21.350	8.720	19222	11	14.530	11.813	19294	11	3.936	14.430	19366*	35	13.780	16.414	19438	12	4.167	19.604
19151	18	22.706	8.081	19223	8	14.910	11.374	19295	8	5.885	14.870	19367	9	14.364	16.016	19439	8	5.708	19.898
19152	8	0.735	9.512	19224	8	15.225	11.844	19296	8	6.764	14.139	19368	15	15.155	16.800	19440	8	7.686	19.785
19153	12	1.546	9.531	19225	8	15.247	11.574	19297	8	7.682	14.982	19369	14	16.728	16.584	19441	20	7.840	19.339
19154	8	2.955	9.624	19226	11	18.321	11.135	19298	8	10.796	14.304	19370	25	17.466	16.183	19442	8	8.036	19.466
19155	10	4.434	9.942	19227	12	18.436	11.027	19299	8	11.028	14.382	19371	8	18.126	16.861	19443	21	8.490	19.298
19156	8	6.429	9.624	19228	8	18.641	11.336	19300	20	12.086	14.880	19372	10	18.156	16.785	19444	8	8.840	19.940
19157	23	7.535	9.434	19229	8	19.170	11.332	19301	9	12.516	14.449	19373	8	19.600	16.890	19445	21	9.115	19.927
19158	10	8.821	9.170	19230	11	19.368	11.963	19302	9	13.368	14.429	19374	13	20.078	16.114	19446	12	9.536	19.650
19159	22	9.954	9.024	19231	14	21.792	11.163	19303	8	13.813	14.930	19375	10	20.487	16.656	19447	8	10.412	19.914
19160	11	9.984	9.468	19232	14	23.087	11.048	19304	10	15.918	14.244	19376	8	21.725	16.581	19448	12	11.808	19.850
19161	20	10.538	9.966	19233	12	23.788	11.092	19305	8	16.848	14.472	19377	24	22.054	16.690	19449	12	13.469	19.510
19162	10	11.774	9.188	19234	15	24.853	11.931	19306	8	17.082	14.128	19378	8	23.659	16.950	19450			

19460	11	0.579	20.576	19532	12	2.850	22.030	19604	18	13.965	24.969	19657	32	6.205	0.946	19729	10	17.046	2.264
19461	30	1.442	20.476	19533	10	3.536	22.316	19605	26	16.012	24.383	19658	10	8.657	0.504	19730	28	18.176	2.326
19462	8	2.145	20.632	19534	17	4.135	22.751	19606	12	16.454	24.564	19659	8	9.465	0.324	19731	15	18.746	2.610
19463	29	2.576	20.911	19535	10	4.240	22.668	19607	9	18.522	24.674	19660	10	10.852	0.114	19732	14	19.092	2.484
19464	11	3.281	20.637	19536	8	4.413	22.910	19608	8	19.252	24.283	19661	14	11.014	0.382	19733*	25	19.134	2.806
19465*	46	3.440	20.685	19537	8	6.957	22.284	19609	8	19.644	24.373	19662*	38	11.649	0.264	19734	12	19.156	2.186
19466	27	3.658	20.870	19538	8	9.186	22.355	19610	8	20.722	24.640	19663	8	11.668	0.625	19735	21	19.756	2.572
19467	8	4.015	20.776	19539	12	11.718	22.584	19611	8	22.726	24.398	19664	16	11.856	0.178	19736	19	22.284	2.064
19468	14	5.152	20.022	19540	9	12.812	22.760	19612	8	24.844	24.191	19665	18	12.326	0.285	19737	16	22.504	2.894
19469	19	6.540	20.414	19541	20	13.423	22.445	19613	8	4.890	25.066	19666	15	12.894	0.416	19738	34	24.382	2.087
19470	10	6.594	20.052	19542	10	13.426	22.672	19614	8	5.498	25.616	19667	19	14.126	0.876	19739	11	25.004	2.386
19471	13	7.590	20.595	19543	9	14.030	22.748	19615	10	6.298	25.344	19668	24	16.244	0.365	19740	16	25.057	2.108
19472	8	7.878	20.922	19544*	28	15.986	22.905	19616	8	6.505	25.980	19669	12	17.687	0.466	19741	54	25.312	2.226
19473	9	8.558	20.951	19545	16	16.414	22.708	19617	14	6.520	25.790	19670	18	19.870	0.046	19742	14	0.752	3.913
19474	10	8.672	20.244	19546	8	18.255	22.726	19618	12	7.264	25.483	19671	17	22.418	0.409	19743	12	0.947	3.894
19475	9	8.700	20.666	19547	10	19.150	22.500	19619	8	7.320	25.623	19672	28	23.027	0.191	19744*	40	1.336	3.744
19476	12	8.780	20.968	19548	8	19.209	22.482	19620	8	7.936	25.350	19673	26	23.498	0.567	19745	25	2.608	3.396
19477	8	9.037	20.422	19549	8	19.858	22.685	19621	9	8.224	25.533	19674	10	24.144	0.194	19746	16	3.174	3.165
19478	12	9.376	20.600	19550	9	20.371	22.721	19622	12	8.918	25.448	19675	34	25.615	0.064	19747	14	4.134	3.506
19479	12	10.474	20.525	19551	17	20.396	22.502	19623	8	9.526	25.800	19676	28	0.514	1.984	19748	15	4.354	3.600
19480	10	11.105	20.433	19552	8	21.304	22.541	19624	8	10.446	25.352	19677	16	1.237	1.902	19749*	40	5.101	3.294
19481	16	11.506	20.857	19553	9	22.062	22.812	19625	10	10.800	25.121	19678	18	2.586	1.593	19750	13	5.764	3.964
19482	8	11.550	20.174	19554	8	22.652	22.385	19626	11	11.095	25.096	19679	13	3.058	1.268	19751	15	6.746	3.235
19483	8	12.414	20.834	19555	8	23.288	22.556	19627	15	12.248	25.566	19680	26	3.298	1.938	19752	8	7.028	3.002
19484*	32	12.570	20.526	19556	10	24.504	22.344	19628	8	12.494	25.402	19681	21	3.965	1.844	19753	17	9.405	3.599
19485	8	14.134	20.230	19557	13	24.966	22.574	19629	16	14.730	25.000	19682	30	4.778	1.746	19754	17	10.306	3.462
19486	9	14.929	20.502	19558*	58	0.682	23.606	19630	8	16.198	25.880	19683	16	5.671	1.882	19755	18	10.715	3.375
19487	13	15.215	20.619	19559	21	3.270	23.476	19631	15	17.804	25.606	19684	14	5.724	1.723	19756	24	11.404	3.817
19488	8	16.163	20.485	19560	11	3.358	23.515	19632	8	17.925	25.201	19685	18	7.222	1.035	19757*	34	11.536	3.707
19489	8	18.833	20.245	19561	12	3.710	23.924	19633	8	18.025	25.976	19686	14	9.258	1.344	19758	8	13.213	3.751
19490	8	19.050	20.024	19562	10	3.844	23.034	19634	8	18.127	25.805	19687	11	9.388	1.185	19759	11	13.550	3.896
19491	20	19.594	20.151	19563	8	4.604	23.065	19635	8	18.316	25.952	19688	20	9.433	1.165	19760	18	13.585	3.226
19492*	35	20.614	20.792	19564	14	4.885	23.518	19636	8	18.876	25.645	19689	15	12.726	1.496	19761	10	15.276	3.906
19493	8	22.076	20.544	19565	8	4.950	23.840	19637	20	19.750	25.166	19690	16	12.746	1.374	19762	22	15.674	3.776
19494	20	22.126	20.070	19566	10	6.074	23.797	19638	9	22.103	25.057	19691*	36	17.308	1.874	19763	34	15.846	3.284
19495*	47	22.560	20.094	19567	12	7.646	23.337	19639	12	22.455	25.422	19692	16	17.800	1.777	19764	8	15.867	3.336
19496	9	22.706	20.515	19568	18	8.854	23.959	19640	8	23.064	25.368	19693	28	18.447	1.314	19765	36	16.132	3.374
19497	12	23.100	20.402	19569	9	10.814	23.263	19641	8	23.549	25.420	19694	10	19.126	1.793	19766	18	17.312	3.843
19498	8	23.690	20.137	19570	10	12.226	23.769	19642	8	24.038	25.450	19695	18	19.312	1.854	19767	37	19.178	3.786
19499	8	24.964	20.316	19571	10	12.703	23.713	19643	8	24.066	25.570	19696	38	20.413	1.005	19768	26	20.004	3.764
19500	8	25.548	20.094	19572	8	12.747	23.536	19644	12	24.150	25.676	19697*	34	20.519	1.316	19769	17	20.195	3.766
19501	13	0.466	21.732	19573	8	17.036	23.691	19645	8	24.224	25.325	19698	40	21.098	1.835	19770	8	21.283	3.676
19502	8	2.613	21.212	19574	8	17.672	23.692					19699	12	22.224	1.334	19771	36	21.623	3.407
19503	19	4.403	21.650	19575	11	18.261	23.188					19700	17	22.254	1.320	19772	22	24.836	3.607
19504	18	5.084	21.264	19576	8	19.238	23.336					19701	16	23.144	1.780	19773	36	2.806	4.342
19505	9	5.116	21.756	19577	8	19.436	23.328					19702	32	23.904	1.422	19774	28	5.866	4.996
19506	13	5.640	21.538	19578	8	22.088	23.838					19703	40	24.196	1.432	19775	17	6.805	4.659
19507	12	5.904	21.948	19579	8	24.189	23.364					19704*	58	24.264	1.436	19776	17	6.933	4.290
19508*	32	8.707	21.242	19580	18	25.910	23.807					19705	25	25.274	1.814	19777	22	7.084	4.818
19509	12	9.642	21.234	19581	12	0.551	24.752					19706	16	25.789	1.441	19778	13	7.257	4.394
19510	10	10.713	21.698	19582	8	3.540	24.932					19707	18	25.795	1.976	19779	19	7.702	4.166
19511	25	11.098	21.386	19583	17	4.348	24.663					19708	15	0.154	2.775	19780	16	9.166	4.108
19512	8	11.352	21.700	19584	25	4.948	24.976					19709	32	1.202	2.606	19781	14	10.193	4.011
19513	8	11.352	21.862	19585	12	5.600	24.732					19710	27	3.076	2.109	19782	8	10.403	4.857
19514	12	11.901	21.358	19586	8	6.682	24.500					19711	8	3.187	2.496	19783	18	10.538	4.564
19515	9	12.242	21.560	19587	20	7.354	24.768					19712	32	3.393	2.538	19784	23	10.996	4.451
19516	11	12.401	21.118	19588	13	7.950	24.314					19713	18	3.766	2.994	19785	14	13.686	4.948
19517	8	13.743	21.406	19589	17	8.740	24.244					19714	15	6.036	2.031	19786	16	14.044	4.346
19518	16	16.332	21.384	19590	26	9.534	24.946					19715*	40	6.177	2.434	19787	16	15.431	4.183
19519	14	16.960	21.852	19591	8	9.802	24.277					19716	34	6.238	2.158	19788	18	15.658	4.934
19520	11	16.975	21.898	19592*	29	9.824	24.122					19717	14	7.954	2.938	19789	14	17.136	4.037
19521	8	17.886	21.125	19593	10	10.032	24.122					19718	28	8.867	2.326	19790	17	17.346	4.350
19522	8	18.255	21.378	19594	21	10.597	24.863					19719	17	9.279	2.694	19791	17	19.420	4.747
19523*	23	19.690	21.719	19595	8	10.756	24.841					19720	12	9.378	2.726	19792	17	19.955	4.596
19524	14	20.010	21.290	19596	8	11.746	24.590					19721	18	9.487	2.336	19793	36	20.501	4.756
19525	8	21.941	21.480	19597	8	12.574	24.125					1972							

19801	15	0-172	5-896	19873	10	14-706	7-834	19945	12	17-356	9-406	20017	21	23-116	11-006	20089	36	18-057	13-058
19802	15	0-883	5-576	19874	18	14-980	7-394	19946	14	17-826	9-919	20018	15	23-186	11-694	20090	8	19-044	13-588
19803	15	6-526	5-056	19875	14	15-152	7-753	19947	18	17-995	9-816	20019	38	23-827	11-701	20091	14	19-057	13-630
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19805	24	8-554	5-323	19877	16	15-766	7-774	19949	10	19-734	9-606	20021	16	24-654	11-393	20093	14	19-950	13-498
19806	8	8-563	5-770	19878	13	16-032	7-882	19950	13	20-347	9-536	20022	14	25-354	11-772	20094	36	20-954	13-418
19807	17	8-634	5-464	19879	12	16-651	7-647	19951	16	20-424	9-264	20023	17	0-126	12-546	20095	8	21-298	13-492
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19809	18	11-336	5-644	19881	18	17-132	7-316	19953	16	21-484	9-145	20025	16	1-974	12-747	20097	12	21-790	13-614
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19811	17	12-882	5-888	19883	28	20-714	7-354	19955	36	22-046	9-970	20027	9	2-716	12-026	20099	24	22-036	13-414
19812	12	13-045	5-688	19884	14	21-902	7-596	19956	8	23-028	9-304	20028	15	6-638	12-846	20100	14	22-254	13-432
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19815	13	16-202	5-834	19887	10	22-674	7-702	19959	14	25-686	9-617	20031	16	7-700	12-430	20103	28	23-000	13-706
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19819	20	18-076	5-045	19891	36	0-284	8-207	19963	12	3-808	10-118	20035	24	10-476	12-874	20107	17	0-344	14-066
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19821	26	19-216	5-930	19893	8	4-262	8-503	19965	36	4-525	10-453	20037	34	11-687	12-164	20109	22	1-846	14-986
19822	16	21-446	5-635	19894	16	4-626	8-925	19966	32	7-156	10-956	20038	26	12-946	12-036	20110	20	2-926	14-315
19823	30	21-836	5-695	19895	8	5-062	8-928	19967	10	7-715	10-135	20039	12	13-070	12-956	20111	16	3-240	14-048
19824	16	22-266	5-824	19896	17	5-146	8-314	19968	15	8-303	10-798	20040	8	13-493	12-285	20112	34	3-906	14-974
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19832	8	5-762	6-833	19904*	80	10-372	8-503	19976	34	16-025	10-984	20048*	36	17-446	12-358	20120	26	9-015	14-166
19833	17	6-206	6-122	19905	15	10-752	8-836	19977	16	16-302	10-705	20049	13	18-026	12-995	20121	22	9-446	14-782
19834	10	6-677	6-943	19906*	38	10-875	8-924	19978	11	17-700	10-998	20050*	38	18-063	12-973	20122	13	10-614	14-483
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19836	16	12-098	6-286	19908	17	12-092	8-055	19980	14	21-466	10-178	20052	20	18-558	12-726	20124	28	12-352	14-943
19837	10	12-457	6-466	19909	19	12-628	8-918	19981	20	22-624	10-736	20053	14	18-710	12-803	20125	24	13-144	14-532
19838	12	13-544	6-896	19910*	50	12-679	8-443	19982	10	22-816	10-670	20054	10	18-808	12-629	20126	8	13-716	14-916
19839	12	13-707	6-036	19911	8	13-658	8-395	19983	28	22-932	10-208	20055	18	19-055	12-974	20127	12	14-440	14-882
19840	18	13-856	6-750	19912	8	14-075	8-195	19984	20	23-226	10-824	20056	15	19-266	12-471	20128	8	15-632	14-172
19841	10	14-525	6-958	19913	34	14-608	8-305	19985	10	25-206	10-080	20057	18	19-754	12-137	20129	19	15-746	14-508
19842	32	14-777	6-944	19914	20	15-102	8-744	19986	12	25-626	10-530	20058	13	19-867	12-352	20130	8	16-566	14-794
19843	18	15-684	6-156	19915	12	15-872	8-936	19987	32	0-711	11-167	20059	24	20-592	12-894	20131*	37	16-890	14-593
19844	13	15-836	6-848	19916	13	16-266	8-307	19988	18	1-414	11-204	20060	34	20-642	12-833	20132	9	16-906	14-035
19845	16	16-467	6-804	19917	22	16-357	8-867	19989	13	2-584	11-330	20061	34	20-724	12-016	20133	8	16-972	14-938
19846	24	17-793	6-134	19918	13	18-474	8-244	19990	10	3-812	11-906	20062	18	20-826	12-898	20134	18	17-656	14-566
19847	16	18-836	6-017	19919	16	19-415	8-751	19991	17	4-045	11-161	20063	18	21-184	12-018	20135	23	18-262	14-927
19848	13	19-108	6-756	19920	12	19-654	8-436	19992	11	4-626	11-494	20064	10	21-914	12-790	20136	14	18-535	14-329
19849*	40	19-384	6-274	19921	24	19-715	8-484	19993	8	5-314	11-442	20065	22	23-054	12-036	20137	8	18-597	14-806
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19853	8	21-084	6-856	19925	17	23-766	8-404	19997	19	5-916	11-876	20069	10	24-578	12-822	20141*	38	19-510	14-743
19854	21	22-331	6-482	19926	37	24-566	8-894	19998	24	6-813	11-726	20070	24	24-949	12-959	20142	18	20-104	14-453
19855	12	24-296	6-444	19927	26	25-246	8-024	19999	36	7-088	11-656	20071	10	25-641	12-756	20143	8	20-162	14-944
19856*	56	24-626	6-186	19928	41	0-464	9-344	20000*	38	9-333	11-586	20072	22	1-918	13-294	20144	16	20-263	14-624
19857	38	25-408	6-556	19929	24	0-700	9-419	20001	24	9-936	11-458	20073	16	1-944	13-684	20145	20	20-876	14-298
19858	18	25-498	6-926	19930	13	2-530	9-444	20002	24	12-466	11-186	20074	16	4-408	13-826	20146	10	20-883	14-416
19859	26	25-886	6-363	19931	13	3-558	9-506	20003	18	13-214	11-106	20075	16	4-480	13-618	20147	31	21-017	14-587
19860*	56	0-816	7-984	19932	13	6-114	9-804	20004	10	13-387	11-668	20076	20	5-706	13-848	20148	14	21-293	14-706
19861	23	5-612	7-216	19933	15	7-363	9-374	20005	18	13-766	11-707	20077	8	6-558	13-276	20149	18	21-969	14-555
19862	15	9-416	7-346	19934	18	8-796	9-809	20006*	36	14-709	11-457	20078	30	10-034	13-538	20150	12	23-128	14-574
19863	18	10-510	7-422	19935	32	9-484	9-414	20007	12	16									

20161	18	5.143	15.124	20233	20	8.450	17.197	20305	19	0.884	19.293	20377	11	7.729	21.702	20449	19	7.165	23.248
20162	15	5.866	15.836	20234	18	8.958	17.399	20306*	39	1.857	19.572	20378	18	8.025	21.064	20450	10	7.544	23.065
20163	8	6.236	15.656	20235	31	9.314	17.963	20307*	34	2.956	19.432	20379	18	8.576	21.352	20451	10	12.258	23.948
20164	16	6.884	15.914	20236	18	9.567	17.546	20308	17	3.807	19.992	20380	26	9.024	21.642	20452	18	12.336	23.792
20165	18	7.056	15.205	20237	16	10.074	17.216	20309*	34	4.071	19.714	20381	24	10.338	21.845	20453	16	12.526	23.798
20166	37	7.274	15.859	20238	12	10.114	17.258	20310	15	5.284	19.364	20382	34	10.376	21.793	20454	8	12.981	23.598
20167	16	9.752	15.216	20239	8	10.734	17.726	20311	16	7.084	19.996	20383	11	10.620	21.077	20455	22	13.470	23.055
20168	16	10.196	15.344	20240	26	10.736	17.198	20312	18	7.156	19.024	20384	12	11.244	21.250	20456	8	14.070	23.049
20169	8	10.768	15.514	20241	10	11.134	17.026	20313	26	7.312	19.316	20385	17	12.024	21.204	20457	10	14.605	23.528
20170	17	10.984	15.144	20242	8	12.015	17.244	20314	8	7.358	19.599	20386	22	12.456	21.166	20458	17	14.764	23.283
20171	16	13.612	15.452	20243	12	12.116	17.254	20315	32	7.455	19.906	20387	16	14.300	21.695	20459	18	14.782	23.029
20172	22	13.947	15.858	20244	32	12.308	17.764	20316	15	8.450	19.402	20388	22	14.888	21.775	20460*	38	15.576	23.656
20173	13	16.865	15.856	20245	8	13.486	17.324	20317	10	8.493	19.555	20389	13	15.029	21.876	20461	8	15.650	23.636
20174	8	17.150	15.344	20246	30	14.124	17.447	20318	37	9.044	19.566	20390*	70	15.085	21.656	20462	15	15.964	23.224
20175	19	18.307	15.387	20247	16	15.084	17.356	20319	36	9.914	19.214	20391	14	15.266	21.285	20463	24	16.936	23.107
20176	8	18.632	15.116	20248	8	15.438	17.914	20320	26	9.974	19.568	20392	20	15.695	21.624	20464	11	19.505	23.750
20177	28	18.682	15.126	20249	12	16.564	17.893	20321	12	10.716	19.886	20393	15	16.716	21.906	20465	20	19.974	23.654
20178	17	18.852	15.209	20250	20	17.496	17.924	20322	11	11.665	19.056	20394	8	17.426	21.252	20466	15	20.506	23.537
20179	20	19.607	15.572	20251	17	18.086	17.188	20323*	58	12.632	19.775	20395	16	17.976	21.611	20467	34	22.195	23.866
20180	10	20.170	15.598	20252	30	18.335	17.436	20324	8	15.965	19.036	20396	13	18.674	21.063	20468	19	23.033	23.546
20181	15	20.692	15.295	20253	10	18.609	17.579	20325	20	16.140	19.024	20397	19	18.914	21.306	20469	20	23.136	23.664
20182	8	20.724	15.684	20254	14	18.646	17.610	20326	15	16.615	19.064	20398	17	21.204	21.476	20470	32	23.326	23.428
20183	19	23.840	15.276	20255	8	19.532	17.667	20327	18	17.278	19.852	20399	37	22.315	21.117	20471	30	23.470	23.393
20184	8	24.400	15.443	20256*	43	19.568	17.851	20328	17	17.551	19.614	20400	12	23.026	21.875	20472	12	24.106	23.663
20185	28	24.426	15.235	20257	8	20.307	17.107	20329	8	18.186	19.916	20401	24	23.409	21.315	20473	15	24.465	23.314
20186	8	25.724	15.420	20258	14	20.830	17.732	20330	26	20.378	19.256	20402	14	24.458	21.066	20474	16	25.305	23.180
20187	39	25.804	15.470	20259	15	21.223	17.862	20331	26	20.874	19.134	20403	22	0.217	22.835	20475	16	25.665	23.534
20188	13	1.885	16.415	20260	22	21.438	17.791	20332	16	21.814	19.633	20404	16	1.086	22.670	20476	11	0.557	24.524
20189	16	3.154	16.887	20261	17	21.476	17.593	20333	23	22.452	19.792	20405	17	2.306	22.444	20477	10	4.056	24.524
20190	22	3.528	16.296	20262	17	21.556	17.525	20334	14	23.856	19.586	20406	24	2.770	22.662	20478	38	4.908	24.451
20191	14	4.556	16.070	20263	8	21.630	17.358	20335	58	0.322	20.224	20407	16	7.176	22.455	20479	11	4.916	24.300
20192	15	5.996	16.786	20264	19	22.324	17.655	20336	17	0.474	20.635	20408	14	7.706	22.994	20480	24	5.704	24.436
20193	15	6.299	16.225	20265	19	22.350	17.964	20337	22	0.870	20.522	20409	34	7.748	22.767	20481	10	8.250	24.823
20194	16	8.938	16.556	20266	20	23.030	17.264	20338	10	1.456	20.244	20410	12	8.140	22.086	20482	8	8.408	24.244
20195	17	8.946	16.544	20267	8	23.407	17.815	20339	12	2.734	20.398	20411	14	8.274	22.770	20483	10	9.184	24.197
20196	19	8.974	16.206	20268	10	23.444	17.836	20340	10	4.095	20.605	20412	15	8.315	22.407	20484	12	9.436	24.604
20197	14	10.383	16.443	20269	10	23.701	17.146	20341	16	5.956	20.484	20413	10	8.566	22.374	20485	18	10.536	24.576
20198	22	11.216	16.246	20270	24	23.936	17.856	20342	16	7.444	20.272	20414	30	10.044	22.056	20486	15	11.545	24.552
20199	8	11.784	16.587	20271	11	24.387	17.898	20343	17	7.884	20.427	20415	14	10.144	22.547	20487	10	11.743	24.459
20200	22	12.004	16.326	20272	13	24.430	17.994	20344	16	8.780	20.394	20416	8	10.695	22.178	20488	8	12.098	24.864
20201*	30	12.470	16.561	20273	34	0.066	18.194	20345	15	10.166	20.138	20417*	32	11.598	22.494	20489	16	13.134	24.260
20202	18	12.748	16.651	20274	22	0.984	18.176	20346	8	10.348	20.443	20418	26	11.750	22.246	20490	36	13.195	24.765
20203	16	13.705	16.635	20275	14	1.214	18.544	20347	11	10.568	20.095	20419	11	11.824	22.776	20491	8	13.369	24.630
20204	16	13.934	16.400	20276	38	1.308	18.838	20348	16	11.304	20.418	20420	12	11.956	22.828	20492	15	14.186	24.856
20205	36	14.394	16.155	20277	19	2.370	18.786	20349	18	11.446	20.826	20421	14	12.204	22.046	20493	19	14.414	24.345
20206	15	15.102	16.894	20278	16	5.616	18.656	20350	15	13.496	20.613	20422	17	12.516	22.577	20494*	40	15.004	24.017
20207	10	16.046	16.797	20279	12	5.637	18.296	20351	12	14.075	20.496	20423	17	12.532	22.618	20495	24	15.838	24.955
20208	10	16.305	16.597	20280	22	6.270	18.726	20352	19	15.714	20.600	20424	10	12.918	22.664	20496	10	17.607	24.118
20209	17	16.574	16.551	20281	19	6.880	18.094	20353	18	16.376	20.882	20425	15	13.765	22.469	20497*	56	17.635	24.316
20210	8	17.826	16.874	20282	16	7.148	18.815	20354	8	16.712	20.786	20426	15	14.156	22.954	20498	18	17.716	24.464
20211	8	18.779	16.844	20283	11	7.336	18.456	20355	18	17.406	20.396	20427	14	14.195	22.820	20499	11	17.794	24.435
20212	13	19.566	16.002	20284	16	7.725	18.854	20356	26	17.529	20.668	20428	14	14.206	22.446	20500	12	18.665	24.282
20213	15	19.814	16.407	20285*	100	9.124	18.046	20357	24	17.654	20.766	20429	10	14.224	22.641	20501	10	20.424	24.700
20214	8	20.234	16.929	20286	34	11.435	18.327	20358	8	17.748	20.662	20430	16	15.217	22.684	20502	20	22.288	24.326
20215	13	20.316	16.962	20287	24	13.110	18.312	20359	10	17.851	20.036	20431	16	15.675	22.914	20503	35	24.176	24.024
20216	19	22.057	16.974	20288	14	13.556	18.386	20360	8	17.896	20.607	20432	12	15.826	22.104	20504*	57	24.362	24.674
20217	15	22.258	16.363	20289	32	13.780	18.436	20361	10	18.462	20.662	20433	10	16.235	22.695	20505	22	0.306	25.545
20218	22	22.292	16.259	20290	8	13.976	18.500	20362	22	20.005	20.964	20434	18	17.315	22.128	20506	16	1.394	25.531
20219*	48	22.673	16.957	20291	19	14.753	18.846	20363	16	20.286	20.313	20435	20	17.784	22.264	20507	18	1.920	25.666
20220	30	23.625	16.474	20292	10	16.176	18.734	20364	11	21.065	20.208	20436*	68	18.216	22.929	20508	12	2.796	25.036
20221	10	23.677	16.876	20293	8	16.796	18.658	20365	16	21.447	20.148	20437	17	18.406	22.636	20509	8	3.492	25.695
20222	24	24.166	16.702	20294	21	17.176	18.556	20366	12	21.674	20.694	20438	10	19.184	22.766				

20521	16	13.276	25.936	20580	10	20.556	0.362	20652	8	22.166	2.206	20724	9	25.128	4.806	20796	10	20.104	6.346
20522	12	13.520	25.489	20581	8	23.047	0.749	20653*	45	22.223	2.317	20725	11	1.273	5.464	20797	20	20.274	6.820
20523	18	13.598	25.449	20582	11	0.700	1.764	20654	11	23.232	2.940	20726	13	3.214	5.655	20798	26	20.578	6.108
20524	16	13.710	25.756	20583	24	1.456	1.400	20655	11	24.018	2.910	20727	24	3.664	5.415	20799	36	22.552	6.575
20525	12	13.806	25.482	20584	42	1.751	1.406	20656	11	24.330	2.275	20728	9	4.936	5.940	20800	23	22.600	6.802
20526	16	14.516	25.157	20585*	62	1.807	1.414	20657	8	24.531	2.195	20729	11	5.524	5.402	20801	26	22.805	6.800
20527	16	16.354	25.474	20586	24	2.832	1.786	20658	49	24.974	2.698	20730	8	5.851	5.552	20802*	59	23.150	6.975
20528	11	16.786	25.168	20587	13	3.353	1.408	20659	31	25.249	2.788	20731*	46	6.062	5.274	20803	16	23.362	6.740
20529	8	17.134	25.764	20588	22	3.358	1.950	20660	12	25.458	2.136	20732*	37	6.083	5.876	20804	23	23.784	6.215
20530	16	18.775	25.536	20589	35	3.707	1.640	20661	26	25.645	2.156	20733	12	7.965	5.600	20805	33	24.654	6.348
20531	12	18.864	25.308	20590	8	4.012	1.188	20662	20	2.402	3.579	20734	15	8.328	5.289	20806	18	24.771	6.614
20532	12	19.165	25.628	20591	8	4.364	1.985	20663	14	3.877	3.563	20735	30	9.286	5.990	20807	30	25.318	6.918
20533	26	22.344	25.275	20592	14	4.505	1.804	20664	9	5.175	3.864	20736	22	9.340	5.294	20808	8	25.524	6.134
20534	34	22.506	25.286	20593	8	4.698	1.196	20665	9	5.501	3.898	20737	8	10.397	5.334	20809	11	25.563	6.551
20535	30	23.048	25.288	20594*	42	5.006	1.886	20666	8	5.993	3.643	20738	8	10.716	5.494	20810	8	25.758	6.768
20536	28	23.694	25.824	20595	8	5.016	1.587	20667	11	6.060	3.636	20739	25	10.970	5.450	20811	8	0.254	7.693
20537	23	24.390	25.726	20596*	44	5.016	1.883	20668	37	9.457	3.176	20740	8	11.334	5.472	20812	8	0.493	7.904
20538	11	24.944	25.060	20597	14	5.410	1.436	20669	11	9.734	3.253	20741	9	12.404	5.866	20813	8	1.981	7.737
20539	46	25.234	25.229	20598	14	6.233	1.481	20670*	46	9.754	3.496	20742	29	13.268	5.194	20814	12	2.829	7.997
20540	56	25.698	25.444	20599	8	8.024	1.158	20671	25	10.616	3.350	20743	8	14.404	5.062	20815	18	3.026	7.530
				20600	9	9.386	1.348	20672	26	11.100	3.830	20744	23	14.664	5.596	20816	18	3.408	7.798
				20601	9	10.786	1.978	20673*	38	12.664	3.508	20745	14	15.872	5.330	20817	17	3.468	7.088
				20602	10	10.947	1.961	20674	14	12.722	3.390	20746	8	18.054	5.406	20818	9	3.754	7.802
				20603	31	11.484	1.923	20675	11	13.926	3.936	20747	8	18.586	5.421	20819	14	5.368	7.126
				20604	24	11.590	1.204	20676	37	15.415	3.406	20748	46	21.272	5.500	20820	11	5.438	7.284
				20605	13	12.289	1.100	20677	18	15.465	3.443	20749	13	21.384	5.268	20821	12	5.505	7.184
				20606	23	12.992	1.748	20678	16	15.537	3.492	20750	9	21.746	5.622	20822	8	6.356	7.844
				20607	11	13.332	1.113	20679	9	15.730	3.372	20751	30	21.984	5.322	20823*	40	6.457	7.816
				20608*	45	14.550	1.546	20680	27	16.860	3.614	20752	8	22.214	5.136	20824	22	7.628	7.200
				20609	35	14.744	1.443	20681	28	16.907	3.800	20753	8	22.283	5.474	20825	13	7.946	7.796
				20610	40	15.254	1.729	20682	8	16.981	3.276	20754	10	22.380	5.558	20826	36	11.064	7.965
				20611	43	17.030	1.924	20683	21	17.882	3.137	20755	40	22.452	5.238	20827	11	12.927	7.832
				20612	22	17.392	1.394	20684	10	18.212	3.548	20756	10	22.950	5.202	20828	12	15.250	7.654
				20613	8	18.358	1.848	20685	8	19.602	3.051	20757	8	23.098	5.432	20829	10	15.286	7.680
				20614	10	19.400	1.407	20686	42	19.668	3.866	20758	18	23.345	5.192	20830	18	15.832	7.820
				20615	8	20.382	1.395	20687	12	19.909	3.270	20759	9	23.590	5.105	20831	10	16.400	7.380
				20616	17	20.446	1.622	20688	34	20.178	3.186	20760	8	23.754	5.865	20832	8	16.483	7.867
				20617	18	20.876	1.146	20689	11	21.840	3.214	20761	15	23.964	5.618	20833	8	17.672	7.475
				20618	12	21.457	1.958	20690	10	22.846	3.816	20762	13	24.816	5.230	20834	24	18.010	7.600
				20619	9	22.228	1.307	20691	11	24.085	3.898	20763	29	24.995	5.963	20835	8	19.186	7.886
				20620	10	0.065	2.876	20692	9	24.140	3.221	20764	9	1.110	6.024	20836	30	19.388	7.014
				20621	9	1.537	2.350	20693	51	25.288	3.806	20765	14	1.868	6.421	20837	23	19.943	7.915
				20622	30	1.942	2.068	20694	9	1.275	4.784	20766*	56	2.192	6.160	20838	12	20.012	7.126
				20623	11	2.566	2.358	20695	15	1.547	4.358	20767*	36	2.981	6.530	20839	22	20.882	7.935
				20624	16	2.618	2.081	20696	10	2.944	4.803	20768	14	3.074	6.894	20840	18	22.042	7.905
				20625	41	2.870	2.198	20697	12	4.176	4.304	20769	22	3.458	6.334	20841	8	23.430	7.951
				20626	12	4.403	2.146	20698	23	4.864	4.740	20770	12	4.708	6.460	20842	11	24.244	7.468
				20627	22	5.836	2.468	20699	15	5.468	4.045	20771	17	6.006	6.104	20843	8	25.370	7.021
				20628	31	7.110	2.692	20700	30	5.688	4.350	20772	11	6.428	6.124	20844	29	25.440	7.786
				20629	8	8.234	2.573	20701	8	5.866	4.232	20773	27	6.740	6.848	20845	8	0.210	8.455
				20630	10	8.340	2.870	20702	9	7.720	4.156	20774	12	9.100	6.168	20846	16	0.714	8.007
				20631	11	8.915	2.354	20703	35	8.123	4.820	20775	8	10.418	6.737	20847*	70	0.938	8.186
				20632	25	9.104	2.273	20704	11	8.338	4.580	20776	24	10.542	6.427	20848	18	1.347	8.383
				20633	17	10.606	2.118	20705	8	8.389	4.429	20777	11	10.997	6.678	20849	29	2.144	8.866
				20634	9	10.823	2.211	20706	10	9.444	4.930	20778	9	11.070	6.177	20850	11	4.677	8.874
				20635	8	11.837	2.522	20707	8	11.521	4.130	20779	12	11.332	6.020	20851	15	5.213	8.547
				20636	10	11.858	2.020	20708	9	14.774	4.380	20780	9	11.890	6.057	20852	40	5.446	8.348
				20637	18	12.900	2.846	20709	34	15.261	4.830	20781	26	13.279	6.213	20853	9	5.835	8.602
				20638*	64	13.532	2.644	20710	14	17.071	4.445	20782	9	14.838	6.340	20854	24	6.015	8.824
				20639	19	14.416	2.934	20711	8	17.532	4.290	20783	11	14.968	6.027	20855	20	6.092	8.566
				20640	9	14.432	2.316	20712	28	17.546	4.684	20784	24	15.147	6.094	20856	10	6.256	8.364
				20641	14	14.562	2.960	20713	9	18.126	4.923	20785	8	15.222	6.402	20857	8	6.308	8.711
				20642	10	14.568	2.200	20714	26	19.284	4.633	20786	10	15.553	6.711	20858	20	6.352	8.540
				20643	10	15.825	2.763	20715	20	19.932	4.532	20787	12	16.285	6.555	20859	11	6.540	8.952
				20644	9	15.826	2.456	20716	33	21.142	4.772	20788	8	17.792	6.185	20860	16	7.620	8.847
				20645	35	16.950	2.188	20717	10	21.427	4.234	20789	12	17.860	6.700	20861	8	8.524	8.592
				20646	8	18.082	2.052	20718	17	22.350	4.470	20790	14	18.106	6.610	20862	8	8.950	8.862
				20647	25	18.125	2.153	20719	8	22.736	4.054	20791	35	18.106	6.450	20863	29	9.414	8.934
				20648	12	18.230	2.524	20720	11	23.938	4.994	20792	8	18.313	6.958	20864	10	10.676	8.038
				20649															

20868	10	12.710	8.660	20940	26	24.304	9.743	21012	15	7.315	11.053	21084	30	0.494	13.750	21156	29	19.521	14.995
20869	9	12.759	8.765	20941	12	25.234	9.972	21013	12	7.506	11.183	21085	8	1.380	13.698	21157	8	19.548	14.810
20870	11	12.948	8.260	20942	8	0.030	10.146	21014	13	7.512	11.064	21086	20	1.598	13.685	21158	8	19.779	14.844
20871	8	14.175	8.333	20943	18	0.210	10.725	21015	13	8.188	11.570	21087	8	2.304	13.056	21159	14	20.934	14.600
20872	9	14.569	8.441	20944	8	0.290	10.935	21016	10	8.732	11.740	21088	8	2.924	13.750	21160	8	21.243	14.350
20873	12	14.822	8.851	20945	27	0.516	10.188	21017	20	9.073	11.622	21089	15	3.311	13.717	21161	15	21.736	14.685
20874	19	14.896	8.864	20946	20	0.708	10.988	21018	20	9.334	11.716	21090	13	3.884	13.343	21162	12	22.236	14.464
20875	19	16.701	8.220	20947	16	0.812	10.805	21019	23	9.368	11.653	21091	10	4.510	13.696	21163	10	22.388	14.632
20876	11	17.162	8.856	20948	8	3.207	10.970	21020	8	9.409	11.115	21092	9	4.685	13.315	21164	12	22.488	14.222
20877	16	17.530	8.444	20949	10	3.214	10.497	21021	8	10.439	11.730	21093	25	4.976	13.650	21165	11	24.169	14.257
20878	9	17.656	8.267	20950	18	3.611	10.800	21022	10	10.847	11.536	21094	8	5.156	13.990	21166	11	25.263	14.942
20879	12	19.293	8.194	20951*	53	3.874	10.161	21023	22	11.514	11.008	21095	10	5.184	13.876	21167	11	25.416	14.636
20880	10	19.801	8.862	20952	13	4.110	10.102	21024	12	13.100	11.284	21096	9	6.076	13.036	21168	13	1.444	15.254
20881	20	20.377	8.854	20953	13	4.693	10.516	21025	8	14.361	11.780	21097	23	6.217	13.357	21169	16	2.033	15.212
20882	8	21.018	8.504	20954	11	5.931	10.838	21026	11	14.551	11.873	21098	28	6.276	13.216	21170	14	3.328	15.394
20883	11	21.144	8.574	20955	11	5.988	10.742	21027	12	14.782	11.648	21099	13	6.638	13.874	21171	38	3.410	15.442
20884	8	21.202	8.034	20956	20	6.126	10.702	21028	8	14.956	11.374	21100	8	6.970	13.012	21172	9	3.726	15.856
20885	8	21.892	8.390	20957	23	7.280	10.135	21029	15	17.040	11.695	21101	8	7.602	13.022	21173	8	5.265	15.772
20886	16	22.630	8.846	20958	12	7.595	10.664	21030	8	17.462	11.309	21102	37	8.809	13.250	21174	9	5.945	15.412
20887	8	22.683	8.528	20959	8	8.020	10.112	21031	18	17.520	11.877	21103	9	9.408	13.560	21175	10	5.966	15.905
20888	13	22.687	8.578	20960	15	8.038	10.386	21032	12	17.874	11.306	21104	18	10.005	13.952	21176	9	6.915	15.734
20889	8	23.415	8.297	20961	10	8.386	10.074	21033	14	18.097	11.570	21105	14	11.264	13.106	21177*	47	6.984	15.622
20890	9	23.745	8.424	20962	9	8.922	10.585	21034	12	19.408	11.959	21106	9	11.462	13.353	21178	23	7.106	15.963
20891	10	23.763	8.177	20963	19	9.280	10.926	21035	12	19.590	11.981	21107	10	11.519	13.808	21179	9	7.800	15.172
20892	43	23.870	8.061	20964	33	10.195	10.580	21036	10	19.704	11.620	21108	31	11.528	13.162	21180	8	8.200	15.665
20893	28	23.912	8.096	20965	11	11.020	10.168	21037	12	20.316	11.410	21109	8	11.950	13.442	21181	16	8.217	15.040
20894	13	23.943	8.500	20966	16	12.386	10.173	21038	14	20.508	11.297	21110	15	12.437	13.206	21182	8	8.851	15.485
20895	8	25.440	8.721	20967	36	12.940	10.738	21039	18	21.616	11.138	21111	11	13.640	13.116	21183	12	9.330	15.191
20896	12	25.448	8.201	20968	9	13.123	10.547	21040	14	21.849	11.616	21112	13	15.107	13.703	21184	8	9.488	15.133
20897	8	25.767	8.182	20969*	37	14.004	10.734	21041	11	21.960	11.405	21113	8	15.743	13.856	21185	9	10.754	15.900
20898	9	0.615	9.283	20970	16	14.215	10.133	21042	39	21.987	11.416	21114	8	16.322	13.005	21186	22	11.192	15.591
20899	33	0.944	9.552	20971	8	14.687	10.724	21043	12	21.994	11.814	21115	10	21.058	13.162	21187	20	11.487	15.333
20900	30	1.293	9.103	20972	8	14.826	10.269	21044	11	22.894	11.624	21116	9	21.308	13.078	21188	9	12.240	15.086
20901	8	3.271	9.592	20973	16	14.860	10.810	21045	18	24.080	11.772	21117	13	21.493	13.107	21189	23	12.392	15.528
20902	25	4.450	9.054	20974	8	15.640	10.248	21046	21	24.230	11.008	21118	9	21.804	13.610	21190	8	12.455	15.736
20903	12	4.855	9.514	20975	9	16.712	10.660	21047	16	0.648	12.020	21119	16	21.868	13.372	21191	13	12.534	15.117
20904	8	5.017	9.816	20976	8	16.738	10.144	21048	32	1.152	12.110	21120*	74	22.015	13.771	21192	24	12.810	15.650
20905	10	6.684	9.117	20977*	46	17.228	10.208	21049	18	1.157	12.476	21121	14	23.092	13.114	21193	10	13.556	15.630
20906	19	8.940	9.066	20978	12	18.160	10.360	21050	11	1.349	12.664	21122	9	23.222	13.657	21194	13	14.498	15.942
20907	8	8.976	9.078	20979	12	18.266	10.350	21051	10	2.175	12.800	21123	22	24.372	13.605	21195	8	15.104	15.903
20908	10	9.418	9.300	20980	20	19.085	10.386	21052	25	2.548	12.935	21124	9	25.084	13.990	21196	8	15.152	15.388
20909*	24	10.510	9.636	20981	8	19.900	10.975	21053	10	3.241	12.722	21125	18	25.265	13.300	21197	14	15.284	15.426
20910	24	10.558	9.724	20982	12	21.565	10.915	21054	26	3.650	12.438	21126	10	25.324	13.293	21198	23	15.915	15.934
20911	23	11.299	9.922	20983	8	23.320	10.604	21055*	51	3.922	12.390	21127	9	0.730	14.555	21199	9	16.266	15.239
20912	19	11.479	9.206	20984	23	23.644	10.510	21056	9	4.163	12.261	21128	12	1.240	14.976	21200	8	17.085	15.686
20913	9	11.690	9.789	20985	16	23.942	10.858	21057	8	4.748	12.818	21129	14	2.482	14.578	21201	13	18.226	15.452
20914	9	12.603	9.266	20986	14	24.254	10.367	21058	19	5.097	12.300	21130	10	3.118	14.292	21202	10	18.403	15.440
20915	10	12.679	9.300	20987	9	24.390	10.786	21059	9	6.346	12.623	21131	8	3.746	14.756	21203	8	20.138	15.479
20916	8	12.911	9.514	20988	36	24.518	10.899	21060	35	7.608	12.517	21132	9	4.680	14.070	21204	24	21.626	15.636
20917	10	13.148	9.098	20989	10	25.506	10.460	21061	11	10.381	12.357	21133	27	4.995	14.095	21205	8	21.675	15.388
20918	30	13.389	9.316	20990	9	0.338	11.736	21062	11	13.701	12.891	21134*	46	5.158	14.904	21206	14	21.866	15.266
20919*	35	13.632	9.951	20991	8	0.499	11.462	21063	8	14.283	12.655	21135	12	6.822	14.280	21207	11	22.406	15.526
20920	9	13.854	9.401	20992	15	0.776	11.674	21064	14	14.437	12.776	21136	19	6.922	14.580	21208	17	23.074	15.556
20921	8	14.597	9.450	20993	45	1.418	11.680	21065	9	14.839	12.337	21137	22	9.642	14.700	21209	18	25.822	15.519
20922	12	14.982	9.142	20994	12	1.902	11.780	21066	8	16.019	12.463	21138	10	9.964	14.241	21210	58	0.281	16.941
20923	10	15.272	9.830	20995	12	2.243	11.366	21067	16	16.176	12.576	21139	15	10.764	14.985	21211	28	1.233	16.452
20924	12	16.352	9.264	20996	13	2.946	11.746	21068	8	18.334	12.938	21140	8	10.894	14.510	21212	8	1.292	16.854
20925	11	18.017	9.982	20997	15	3.608	11.317	21069	17	19.004	12.894	21141	13	11.089	14.932	21213	8	1.514	16.314
20926	13	18.306	9.420	20998	8	3.817	11.888	21070	10	19.006	12.305	21142	10	11.904	14.893	21214	25	1.780	16.680
20927	10	18.886	9.520	20999	8	3.906	11.698	21071	11	19.140	12.518	21143	10	12.354	14.069	21215	8	4.590	16.550
20928	10	19.090	9.170	21000	9	3.964	11.352	21072	14	19.672	12.064	21144	10	14.040	14.330	21216	8	5.156	16.134
20929	23	19.314	9.964	21001	9	3.965	11.074	21073*	66	20.184	12.488	21145	32	14.115	14.090	21217	18	5.510	16.594
20930	9	19.582	9.971	21002	9	4.194	11.996	21074	8	21.022	12.850	2114							

21228	19	14.175	16.009	21300	20	0.380	18.844	21372	9	22.846	19.110	21444	26	21.343	21.364	21516	10	15.764	23.601
21229	11	14.204	16.571	21301	27	0.427	18.948	21373	14	24.512	19.889	21445	13	22.300	21.748	21517	13	16.328	23.176
21230	15	14.935	16.320	21302	21	1.717	18.584	21374	11	25.117	19.671	21446	20	22.896	21.228	21518	18	17.599	23.166
21231	9	15.010	16.502	21303	38	2.799	18.282	21375	8	25.485	19.600	21447	9	23.052	21.900	21519	37	17.660	23.965
21232	9	16.190	16.344	21304	8	5.284	18.705	21376	51	0.072	20.720	21448	10	23.460	21.740	21520	25	18.341	23.864
21233	26	16.791	16.540	21305	19	5.414	18.914	21377	23	0.229	20.948	21449	8	25.984	21.188	21521	37	19.898	23.838
21234	35	17.526	16.829	21306	8	6.098	18.490	21378	10	0.632	20.865	21450	10	1.981	22.842	21522	11	19.908	23.375
21235	25	19.325	16.116	21307	31	7.011	18.714	21379	8	1.962	20.516	21451	9	2.090	22.742	21523	15	20.352	23.946
21236	12	19.682	16.364	21308	31	7.396	18.610	21380	8	2.088	20.036	21452	17	2.892	22.835	21524	11	21.078	23.729
21237	8	19.772	16.702	21309	8	7.494	18.958	21381	35	2.222	20.734	21453*	42	4.384	22.066	21525	11	21.856	23.556
21238	9	19.872	16.246	21310	8	8.426	18.196	21382	12	3.980	20.528	21454	17	4.770	22.316	21526	37	22.210	23.176
21239	24	20.538	16.763	21311	9	8.467	18.509	21383	14	4.277	20.484	21455	12	5.198	22.600	21527	33	23.915	23.910
21240	9	20.905	16.666	21312	8	8.577	18.483	21384	9	4.376	20.496	21456	25	5.424	22.393	21528	12	25.530	23.637
21241	19	21.965	16.618	21313	8	9.168	18.250	21385*	54	5.858	20.386	21457	15	7.062	22.060	21529	32	25.652	23.741
21242	8	22.044	16.114	21314	10	9.762	18.256	21386	13	8.571	20.225	21458	13	7.572	22.125	21530*	62	2.003	24.649
21243	15	22.084	16.904	21315	9	9.845	18.802	21387*	31	12.138	20.145	21459	26	8.240	22.622	21531	12	6.394	24.580
21244	15	22.230	16.935	21316	25	11.376	18.318	21388	15	12.246	20.018	21460	11	9.664	22.650	21532	10	6.948	24.025
21245	8	23.004	16.926	21317	8	11.447	18.472	21389	19	12.382	20.702	21461	13	10.643	22.110	21533	39	6.961	24.990
21246	17	23.170	16.500	21318	13	11.540	18.880	21390	12	13.579	20.730	21462	9	10.704	22.608	21534	11	7.370	24.222
21247	26	23.262	16.632	21319	11	12.676	18.485	21391	14	14.635	20.874	21463	16	10.820	22.424	21535*	52	8.048	24.819
21248	11	23.646	16.822	21320	11	12.918	18.500	21392	33	14.931	20.437	21464	12	11.738	22.946	21536	29	10.005	24.286
21249	32	24.461	16.530	21321	10	12.992	18.714	21393	15	15.015	20.252	21465	10	13.085	22.988	21537	30	11.059	24.902
21250	13	25.112	16.744	21322	23	15.072	18.495	21394	14	15.317	20.260	21466	8	13.530	22.298	21538	27	11.257	24.074
21251	13	0.640	17.248	21323	13	16.308	18.057	21395	9	15.740	20.996	21467	32	14.494	22.749	21539	8	11.308	24.640
21252	10	1.061	17.817	21324	10	16.503	18.662	21396	10	15.770	20.409	21468	9	15.477	22.402	21540*	46	12.828	24.884
21253	18	1.552	17.837	21325	8	17.218	18.060	21397	12	16.334	20.760	21469	37	15.820	22.981	21541	25	12.944	24.223
21254	8	2.004	17.876	21326	10	17.728	18.072	21398*	41	16.610	20.611	21470	14	16.206	22.918	21542	15	12.970	24.706
21255	14	2.049	17.970	21327	8	18.338	18.920	21399	9	17.538	20.415	21471	8	16.432	22.893	21543	26	12.992	24.263
21256	8	3.434	17.030	21328	10	18.594	18.198	21400	8	18.266	20.358	21472	26	17.316	22.286	21544	11	13.658	24.842
21257	11	3.649	17.842	21329	8	19.700	18.710	21401	23	18.577	20.324	21473	10	17.603	22.937	21545	8	14.810	24.923
21258	8	3.789	17.162	21330	20	23.557	18.816	21402	17	18.682	20.371	21474	13	17.680	22.630	21546	8	15.078	24.184
21259*	52	4.027	17.964	21331	26	24.018	18.274	21403*	64	18.850	20.678	21475	21	19.416	22.474	21547	10	15.487	24.026
21260	19	4.610	17.924	21332	21	24.195	18.924	21404*	38	19.500	20.314	21476	32	19.551	22.176	21548	10	15.922	24.088
21261	8	4.928	17.330	21333	13	0.076	19.776	21405*	38	19.502	20.300	21477	18	19.705	22.690	21549	26	16.744	24.710
21262	20	5.676	17.550	21334	10	1.484	19.566	21406	10	20.534	20.240	21478	8	21.358	22.606	21550	10	17.768	24.855
21263	9	6.068	17.875	21335	12	4.292	19.255	21407	13	22.342	20.248	21479	38	22.117	22.895	21551	9	18.359	24.451
21264	8	6.401	17.833	21336	8	5.236	19.448	21408	25	22.598	20.130	21480	8	22.146	22.235	21552	32	18.948	24.458
21265	8	6.528	17.874	21337	13	5.815	19.984	21409	10	24.562	20.699	21481	10	22.674	22.164	21553	8	18.964	24.968
21266	15	6.572	17.516	21338	13	5.836	19.124	21410	8	25.418	20.956	21482*	59	22.678	22.927	21554	36	20.962	24.090
21267	9	7.548	17.950	21339	8	5.887	19.832	21411	12	25.476	20.026	21483	32	25.728	22.632	21555	10	22.862	24.176
21268	16	9.872	17.444	21340	11	6.579	19.394	21412	24	25.482	20.078	21484	12	25.873	22.021	21556	12	24.342	24.315
21269	9	10.321	17.615	21341	11	6.984	19.006	21413	8	0.660	21.856	21485	11	0.676	23.526	21557	9	25.697	24.200
21270	10	11.309	17.718	21342	9	7.100	19.976	21414	13	1.041	21.294	21486	12	0.776	23.645	21558	35	0.156	25.263
21271	10	11.350	17.328	21343	8	7.420	19.527	21415	9	2.089	21.039	21487	23	0.966	23.409	21559	23	0.697	25.266
21272	10	12.150	17.368	21344	12	7.564	19.933	21416	24	4.160	21.343	21488	25	1.112	23.372	21560	12	1.344	25.806
21273	12	12.380	17.616	21345	10	8.265	19.400	21417	9	4.340	21.204	21489	8	1.750	23.641	21561	18	2.040	25.706
21274	15	12.399	17.030	21346	31	8.998	19.760	21418	8	4.742	21.113	21490	26	1.820	23.997	21562	9	2.592	25.034
21275	10	12.572	17.020	21347	12	11.570	19.716	21419	15	5.492	21.419	21491	13	2.105	23.286	21563	41	2.880	25.198
21276	11	12.670	17.081	21348	8	11.632	19.354	21420	18	5.816	21.985	21492	8	2.433	23.878	21564	53	3.345	25.412
21277	8	12.952	17.266	21349*	41	11.859	19.055	21421	9	6.577	21.920	21493	10	2.942	23.152	21565	11	4.510	25.424
21278	12	13.284	17.168	21350	10	12.171	19.443	21422	13	7.503	21.661	21494	11	3.307	23.502	21566	9	4.667	25.266
21279	22	14.014	17.502	21351	8	12.414	19.084	21423	10	10.232	21.736	21495	12	3.796	23.813	21567	14	4.826	25.326
21280	22	14.572	17.948	21352	8	13.624	19.932	21424	9	10.524	21.950	21496	16	4.150	23.662	21568	8	5.106	25.680
21281	8	15.198	17.047	21353	14	14.554	19.966	21425	10	10.920	21.299	21497*	36	5.906	23.512	21569	47	5.300	25.541
21282	10	15.372	17.475	21354	26	15.757	19.540	21426	10	11.116	21.850	21498	23	6.528	23.199	21570	21	7.441	25.462
21283	10	16.018	17.569	21355	12	16.079	19.530	21427	17	11.583	21.211	21499	41	7.617	23.509	21571	16	8.792	25.814
21284	11	16.045	17.154	21356	17	16.130	19.140	21428	8	11.760	21.064	21500	13	8.200	23.344	21572	35	10.080	25.874
21285	21	17.004	17.222	21357	22	16.483	19.343	21429	9	12.716	21.226	21501	14	8.246	23.530	21573	9	10.521	25.205
21286	13	17.344	17.297	21358	16	16.525	19.460	21430	8	12.858	21.863	21502	9	8.387	23.130	21574*	61	12.002	25.340
21287	12	18.020	17.081	21359	10	17.330	19.949	21431	26	13.819	21.465	21503	53	8.767	23.740	21575	35	12.754	25.790
21288	9	18.090	17.388	21360	8	17.928	19.425	21432	8	14.554	21.123	21504	25	9.064	23.847	21576	46	12.982	25.430
21289	11	19.155	17.763	21361	8	18.282	19.366	21433	28	14.742	21.370	21505	10	9.142	23.102	21577	8	14.942	25.260
21290	9	19.217	17.22																

																R.A. 8 ^h 0 ^m			
21945	31	20.635	13.555	22017	42	22.426	16.717	22089	8	25.608	19.551	22161	39	19.556	22.584	Plate 484; 1915 Feb. 12 Provisional Constants.			
21946	21	21.510	13.906	22018	12	24.158	16.730	22090	22	0.256	20.528	22162	8	20.214	22.739				
21947	37	21.759	13.230	22019	17	24.790	16.038	22091	18	0.281	20.246	22163	8	21.100	22.775				
21948	11	22.113	13.076	22020	8	25.735	16.750	22092	9	2.168	20.253	22164	13	22.576	22.084	A B C —01765 +.00226 —.0635			
21949	12	23.328	13.366	22021	9	0.126	17.738	22093	8	2.768	20.026	22165	11	24.533	22.283				
21950	23	24.272	13.470	22022	12	0.542	17.594	22094	9	3.133	20.376	22166	8	25.384	22.576				
21951	12	25.156	13.824	22023	19	0.862	17.016	22095	13	3.142	20.428	22167	60	25.802	22.914	D E F —00224 —.01788 +.0499			
21952	9	0.053	14.617	22024	9	0.935	17.874	22096	23	3.865	20.286	22168	62	0.382	23.324				
21953	8	0.208	14.934	22025	8	1.252	17.198	22097	40	5.166	20.702	22169	9	3.248	23.990				
21954	8	1.735	14.632	22026	12	3.091	17.373	22098	9	5.214	20.663	22170	11	3.760	23.759	Mag. = 15.8 - 1.10√d			
21955	20	4.086	14.554	22027	8	3.649	17.885	22099	12	6.715	20.330	22171	15	7.343	23.766				
21956	10	5.314	14.852	22028	9	4.281	17.846	22100	11	8.418	20.020	22172	45	7.488	23.286				
21957	11	7.311	14.282	22029	12	5.496	17.416	22101	22	8.808	20.930	22173	10	7.553	23.620	No. d x y			
21958	25	9.996	14.258	22030	12	5.565	17.794	22102	13	8.842	20.756	22174	11	10.161	23.713				
21959	10	10.686	14.001	22031	8	5.762	17.430	22103	8	9.508	20.714	22175	21	10.252	23.935	22251	22	0.190	0.852
21960	8	10.916	14.330	22032	8	6.180	17.298	22104	26	10.364	20.080	22176	20	12.084	23.781	22252	14	0.801	0.498
21961	12	11.252	14.800	22033	9	6.528	17.214	22105	20	11.495	20.778	22177	9	12.404	23.982	22253	9	1.733	0.452
21962	9	13.030	14.684	22034	15	6.672	17.159	22106	8	11.856	20.233	22178	10	12.862	23.258	22254	22	2.452	0.068
21963	10	13.359	14.782	22035	8	6.768	17.970	22107	8	11.859	20.039	22179	33	14.430	23.171	22255	8	2.568	0.016
21964	11	13.609	14.844	22036	10	7.138	17.962	22108	8	11.916	20.124	22180	8	15.681	23.550	22256	8	4.760	0.056
21965	8	14.513	14.431	22037	8	7.791	17.647	22109	10	12.426	20.624	22181*	59	16.160	23.114	22257	8	10.116	0.091
21966	22	14.772	14.846	22038	8	9.278	17.302	22110	31	13.226	20.176	22182	10	17.345	23.840	22258	8	11.304	0.042
21967	8	15.450	14.060	22039	8	10.578	17.786	22111*	57	13.464	20.324	22183	13	19.430	23.906	22259	8	11.592	0.786
21968	9	16.274	14.755	22040	13	11.034	17.576	22112	8	14.585	20.348	22184	8	19.900	23.446	22260*	37	11.874	0.785
21969	8	16.321	14.976	22041	33	16.748	17.406	22113	8	14.880	20.351	22185	8	20.780	23.111	22261	11	12.664	0.548
21970	8	16.900	14.271	22042*	58	18.860	17.449	22114	10	15.225	20.660	22186	10	20.865	23.664	22262	8	14.029	0.650
21971	11	17.865	14.604	22043	8	20.250	17.426	22115	34	15.304	20.047	22187	13	24.638	23.122	22263	8	14.064	0.432
21972	8	18.276	14.918	22044	22	22.126	17.736	22116	23	16.610	20.430	22188	12	25.624	23.105	22264*	21	14.530	0.253
21973	38	19.698	14.811	22045	22	22.849	17.033	22117	8	18.662	20.594	22189	8	25.650	23.367	22265	8	16.222	0.385
21974	26	19.806	14.726	22046	8	23.513	17.481	22118	16	23.206	20.800	22190	31	25.944	23.682	22266	8	16.264	0.368
21975	8	20.592	14.626	22047	11	25.112	17.088	22119	25	23.767	20.030	22191	8	0.592	24.568	22267	18	18.188	0.660
21976	8	21.132	14.196	22048	8	0.964	18.172	22120	8	23.823	20.348	22192	9	0.683	24.478	22268	8	18.668	0.572
21977	9	21.924	14.324	22049	26	1.646	18.650	22121	17	23.932	20.166	22193	24	1.640	24.288	22269	11	19.343	0.213
21978*	130	22.268	14.274	22050	22	3.712	18.026	22122	11	0.574	21.616	22194	26	3.374	24.088	22270	8	25.028	0.542
21979	24	23.428	14.675	22051	8	4.140	18.209	22123	8	2.234	21.060	22195	8	3.426	24.548	22271	12	25.130	0.478
21980	9	23.753	14.165	22052	8	6.422	18.785	22124	8	3.090	21.314	22196	13	4.318	24.412	22272	17	0.075	1.648
21981	40	24.145	14.519	22053	9	9.513	18.330	22125	10	4.928	21.970	22197	9	7.844	24.660	22273	8	0.691	1.392
21982	37	25.936	14.334	22054	8	10.504	18.750	22126	10	5.185	21.502	22198	8	9.016	24.700	22274	8	2.035	1.260
21983	8	0.663	15.946	22055	8	12.425	18.573	22127	8	5.325	21.717	22199	13	9.240	24.245	22275	8	3.422	1.520
21984	9	2.841	15.296	22056	43	13.884	18.274	22128	8	8.200	21.984	22200	8	11.388	24.268	22276	8	4.520	1.883
21985	9	3.412	15.864	22057	9	14.972	18.564	22129	40	8.532	21.605	22201	8	13.458	24.938	22277	8	4.964	1.230
21986	10	3.934	15.849	22058	24	15.250	18.272	22130	40	8.572	21.564	22202	8	14.178	24.364	22278	11	5.185	1.054
21987	8	4.600	15.854	22059	10	16.525	18.378	22131	34	10.778	21.695	22203	12	15.133	24.934	22279	8	7.595	1.150
21988	12	5.398	15.862	22060	12	20.210	18.368	22132	11	11.407	21.226	22204	11	16.144	24.851	22280	8	8.439	1.575
21989	24	8.330	15.364	22061	46	21.446	18.049	22133	46	12.744	21.706	22205	10	16.194	24.894	22281	12	9.952	1.964
21990	9	11.323	15.946	22062	8	22.218	18.445	22134	12	16.173	21.461	22206	13	16.296	24.694	22282	17	9.018	1.562
21991	11	15.870	15.764	22063	9	23.766	18.822	22135	10	18.822	21.724	22207*	56	17.216	24.617	22283	10	11.024	1.958
21992	12	16.847	15.900	22064	12	24.680	18.115	22136	13	20.210	21.770	22208	11	22.941	24.622	22284	8	12.234	1.086
21993	10	18.896	15.623	22065	8	25.426	18.774	22137	8	20.250	21.195	22209	11	23.264	24.860	22285	8	12.472	1.707
21994	9	21.294	15.266	22066	8	0.487	19.497	22138	11	20.570	21.683	22210	14	24.506	24.078	22286	8	15.596	1.576
21995	25	23.922	15.702	22067	12	1.194	19.198	22139	39	21.306	21.089	22211	14	25.220	24.744	22287	13	17.896	1.755
21996	9	24.134	15.274	22068	14	1.836	19.298	22140	12	22.314	21.011	22212	9	4.805	25.422	22288*	29	17.926	1.716
21997	12	24.764	15.732	22069	9	3.795	19.705	22141	8	22.513	21.084	22213	12	7.974	25.359	22289	9	17.929	1.200
21998	12	25.223	15.674	22070	9	4.794	19.427	22142	16	25.600	21.087	22214	8	8.295	25.900	22290	13	18.230	1.508
21999	8	25.480	15.072	22071	8	5.283	19.006	22143	8	0.740	22.290	22215	23	9.679	25.270	22291*	48	18.695	1.118
22000	11	0.767	16.884	22072	8	6.471	19.974	22144	8	1.147	22.123	22216	26	10.986	25.910	22292	8	19.652	1.030
22001	34	2.064	16.898	22073	8	6.691	19.859	22145	31	3.430	22.980	22217	16	11.154	25.818	22293	8	20.330	1.040
22002	8	3.668	16.146	22074	8	8.770	19.845	22146	8	3.566	22.368	22218	18	11.284	25.426	22294*	60	20.438	1.947
22003	9	5.110	16.848	22075	8	9.200	19.020	22147	12	3.970	22.937	22219	13	12.395	25.190	22295	27	21.214	1.756
22004	8	6.275	16.448	22076	9	10.246	19.178	22148	8	6.075	22.966	22220	8	12.765	25.681	22296	23	21.893	1.712
22005	8	7.258	16.293	22077	30	10.546	19.713	22149	8	6.873	22.145	22221	13	12.786	25.022	22297	8	23.254	1.7

22306	10	3.670	2.400	22378	8	0.648	5.454	22450	12	19.946	7.026	22522	22	12.115	10.177	22594	8	9.096	13.084
22307	19	4.013	2.019	22379*	24	1.635	5.290	22451	30	21.030	7.961	22523	8	13.399	10.285	22595	12	9.498	13.259
22308	10	4.046	2.014	22380	29	1.955	5.686	22452	20	21.867	7.796	22524	10	13.943	10.947	22596	19	10.234	13.448
22309	10	6.478	2.292	22381	8	2.134	5.817	22453	10	22.600	7.999	22525	9	15.266	10.504	22597	8	12.162	13.170
22310	9	7.681	2.266	22382	8	2.978	5.662	22454	10	24.710	7.936	22526*	38	16.085	10.824	22598	8	12.887	13.119
22311	9	9.910	2.344	22383	14	4.736	5.368	22455	8	25.946	7.908	22527	20	19.194	10.117	22599	13	13.468	13.626
22312	8	13.600	2.102	22384	8	5.515	5.052	22456	8	0.022	8.710	22528	8	19.700	10.100	22600	37	14.287	13.354
22313	13	14.070	2.604	22385	8	7.381	5.750	22457*	50	1.462	8.786	22529	8	21.668	10.531	22601	8	15.069	13.491
22314	8	14.098	2.965	22386*	40	7.568	5.712	22458	8	2.134	8.100	22530	27	24.754	10.920	22602*	13	15.124	13.610
22315	8	14.553	2.770	22387	8	7.811	5.466	22459	9	2.199	8.539	22531	8	25.648	10.658	22603	8	15.352	13.254
22316	8	14.954	2.155	22388	8	7.968	5.815	22460	9	3.762	8.057	22532	10	0.608	11.282	22604	9	15.550	13.014
22317	8	15.436	2.980	22389	8	8.127	5.256	22461	8	4.514	8.537	22533*	28	0.630	11.620	22605	8	16.254	13.156
22318	12	16.735	2.726	22390	8	8.535	5.272	22462	10	4.542	8.580	22534	8	1.032	11.772	22606*	38	16.626	13.088
22319	8	17.104	2.205	22391	10	11.336	5.408	22463	8	5.698	8.398	22535	11	1.072	11.414	22607	8	16.758	13.236
22320	12	19.028	2.258	22392	10	12.286	5.422	22464	33	9.032	8.824	22536	8	1.136	11.616	22608	21	17.228	13.229
22321	12	19.040	2.570	22393*	54	12.798	5.507	22465	8	10.900	8.079	22537	12	1.404	11.224	22609*	63	17.781	13.800
22322	9	20.920	2.456	22394	9	16.952	5.887	22466	8	11.493	8.760	22538	11	2.996	11.624	22610	8	19.672	13.564
22323	12	24.154	2.516	22395	10	19.596	5.198	22467	23	11.975	8.655	22539	9	3.709	11.090	22611	26	20.554	13.019
22324	8	25.136	2.656	22396	8	20.966	5.417	22468	21	13.170	8.246	22540	8	4.132	11.218	22612	27	23.946	13.940
22325	9	2.240	3.929	22397	10	21.056	5.804	22469	8	14.236	8.206	22541	21	4.428	11.690	22613	12	0.985	14.728
22326	11	3.202	3.424	22398	8	21.557	5.598	22470	28	16.968	8.699	22542	8	6.025	11.142	22614	8	1.301	14.217
22327	8	4.346	3.984	22399	13	22.456	5.596	22471	8	18.624	8.023	22543	9	6.124	11.805	22615	26	1.700	14.566
22328	8	6.072	3.482	22400	24	22.615	5.535	22472	9	21.428	8.514	22544	8	7.462	11.231	22616	8	3.358	14.532
22329	8	6.863	3.482	22401	8	23.283	5.600	22473	12	22.096	8.434	22545	16	7.910	11.078	22617	25	3.490	14.371
22330	8	7.073	3.355	22402	10	24.107	5.440	22474	11	22.194	8.588	22546	8	8.055	11.471	22618	9	5.103	14.860
22331	8	9.150	3.979	22403	8	24.310	5.145	22475	8	24.004	8.234	22547	10	8.268	11.494	22619	17	7.426	14.568
22332*	22	9.428	3.046	22404	27	25.122	5.650	22476	15	24.466	8.481	22548	16	10.490	11.932	22620	8	10.034	14.151
22333	13	9.570	3.504	22405	8	0.715	6.494	22477	8	25.454	8.594	22549	16	11.224	11.036	22621	8	10.546	14.879
22334	8	12.330	3.296	22406	8	1.198	6.356	22478	26	0.556	9.812	22550	8	13.648	11.020	22622	11	11.223	14.250
22335	8	12.819	3.340	22407	8	1.238	6.918	22479	9	0.998	9.436	22551	8	18.102	11.629	22623	9	12.919	14.384
22336	8	13.187	3.620	22408	8	1.586	6.110	22480*	42	1.010	9.666	22552	9	18.383	11.416	22624*	50	15.383	14.370
22337	12	13.422	3.468	22409	8	3.193	6.968	22481	9	1.535	9.420	22553	10	21.878	11.578	22625	8	15.700	14.302
22338	13	14.583	3.756	22410	8	4.700	6.941	22482	19	3.262	9.540	22554	10	22.918	11.358	22626	11	16.171	14.726
22339	8	15.586	3.916	22411	8	6.050	6.968	22483	19	3.295	9.858	22555	14	23.046	11.957	22627	16	17.558	14.550
22340	13	15.652	3.739	22412	9	8.000	6.300	22484	10	3.736	9.164	22556	8	24.336	11.740	22628	10	18.283	14.086
22341	8	15.771	3.507	22413	8	8.321	6.482	22485	11	5.643	9.908	22557	8	24.830	11.945	22629	8	20.361	14.815
22342	13	16.004	3.667	22414	22	11.862	6.011	22486	8	6.884	9.346	22558	8	0.987	12.713	22630	11	21.382	14.458
22343	18	16.862	3.913	22415	8	12.032	6.550	22487	10	7.889	9.664	22559	10	2.386	12.746	22631	8	21.508	14.954
22344	8	17.465	3.665	22416	21	13.204	6.750	22488	8	7.998	9.591	22560	14	2.518	12.538	22632	11	21.664	14.010
22345	10	18.088	3.276	22417	21	13.740	6.137	22489	10	9.398	9.572	22561	13	4.054	12.394	22633	8	23.132	14.354
22346	8	20.638	3.814	22418*	36	14.087	6.932	22490	8	9.512	9.235	22562	17	4.534	12.192	22634	16	23.210	14.630
22347	20	20.936	3.454	22419	8	14.808	6.012	22491	9	9.712	9.228	22563	8	5.507	12.200	22635	8	23.306	14.555
22348	12	21.387	3.499	22420	10	15.142	6.726	22492	8	10.768	9.567	22564	8	5.619	12.965	22636	10	23.465	14.314
22349	8	21.842	3.254	22421*	21	23.108	6.826	22493	9	11.657	9.397	22565	8	6.452	12.232	22637*	40	24.404	14.026
22350	21	22.066	3.714	22422	8	23.425	6.982	22494	10	13.733	9.502	22566	8	7.074	12.774	22638	8	25.611	14.128
22351	8	24.730	3.870	22423	11	24.445	6.648	22495	8	14.960	9.796	22567	8	9.743	12.131	22639	12	1.484	15.751
22352	8	24.852	3.906	22424	17	25.177	6.545	22496	10	14.980	9.812	22568	9	9.780	12.440	22640	8	1.695	15.325
22353	26	25.875	3.854	22425	8	0.528	7.232	22497*	36	14.994	9.256	22569	8	10.119	12.228	22641	8	2.326	15.777
22354	8	1.482	4.020	22426*	25	0.676	7.756	22498	9	16.260	9.088	22570	8	10.418	12.597	22642	9	2.785	15.718
22355	10	4.162	4.563	22427	8	1.508	7.921	22499	8	17.289	9.926	22571	8	10.680	12.598	22643	8	5.501	15.770
22356*	40	5.691	4.800	22428	8	2.628	7.432	22500	8	18.614	9.734	22572	8	12.039	12.392	22644*	32	5.630	15.525
22357	8	6.299	4.914	22429	8	4.082	7.630	22501	8	18.689	9.818	22573	8	12.066	12.432	22645	8	7.268	15.332
22358*	38	10.800	4.340	22430	17	4.514	7.863	22502	13	19.823	9.535	22574	14	14.524	12.225	22646	8	8.725	15.848
22359	8	11.116	4.807	22431	12	5.468	7.840	22503	8	20.258	9.198	22575*	18	16.714	12.347	22647	11	14.434	15.536
22360	8	11.374	4.876	22432	8	5.679	7.958	22504*	36	20.582	9.654	22576	10	17.090	12.210	22648	8	19.929	15.048
22361	10	12.320	4.770	22433	8	7.650	7.012	22505	8	21.272	9.686	22577	16	18.679	12.250	22649	14	20.290	15.536
22362	9	12.973	4.192	22434	9	8.103	7.208	22506	11	21.474	9.810	22578	8	19.493	12.804	22650	15	21.058	15.902
22363	15	13.917	4.383	22435	15	9.544	7.630	22507	9	24.408	9.242	22579	8	19.694	12.498	22651	8	22.352	15.480
22364	8	14.623	4.000	22436	8	10.201	7.136	22508	11	2.504	10.630	22580	8	19.952	12.058	22652	21	22.720	15.115
22365	8	14.717	4.712	22437	10	10.406	7.371	22509	8	2.680	10.834	22581	8	22.402	12.696	22653	10	23.495	15.285
22366	8	15.024	4.774	22438	8	10.710	7.950	22510	8	3.694	10.360	22582	8	25.065	12.730	22654	10	24.254	15.168
22367	15	16.524	4.864	22439	8	11.738	7.770	22511	12	4.165	10.477	22583	8	0.875	13.426	22655	10	1.728	16.778
22368	23	16.526	4.448	22440	8	12.000	7.182	22512	11	7.262	10.185	22584	11	1.820	13.518	22656	12	2.355	16.086
22369	8	17.000	4.472	22441	8	12.186	7.510	22513	12	7.326	10.419								

22666	8	15.300	16.412	22738	10	21.016	19.023	22810	10	20.150	22.878	R.A. 8 ^h 8 ^m Plate 478; 1915 Feb. 11. <i>Provisional Constants.</i> A B C -0.1764 +0.00372 -1.581 D E F -0.00359 -0.01789 +0.0056 Mag. = 14.9 - 1.10√d	22957	10	8.667	3.906
22667	34	15.578	16.984	22739	31	25.708	19.471	22811	8	22.194	22.248		22958	19	9.690	3.040
22668	8	16.324	16.576	22740	10	0.800	20.850	22812	31	22.205	22.143		22959	11	10.366	3.844
22669	8	16.616	16.408	22741	12	1.356	20.078	22813	10	22.954	22.204		22960	8	10.990	3.928
22670	11	19.470	16.195	22742	8	1.414	20.398	22814	10	25.090	22.780		22961	8	12.766	3.490
22671	8	20.400	16.940	22743	10	1.519	20.218	22815	10	2.248	23.166		22962	8	13.395	3.492
22672	9	24.827	16.956	22744	8	4.700	20.040	22816	8	3.234	23.140		22963	8	16.730	3.128
22673	11	0.420	17.088	22745	11	6.358	20.100	22817	8	3.259	23.400		22964	12	17.383	3.740
22674	8	2.684	17.130	22746	9	6.362	20.833	22818	16	3.555	23.719		22965	14	17.384	3.410
22675	9	3.500	17.164	22747	12	7.262	20.460	22819	8	3.946	23.981		22966	9	17.940	3.464
22676*	42	4.638	17.114	22748	18	8.076	20.307	22820	8	5.001	23.216	22967	10	18.718	3.500	
22677	13	4.663	17.556	22749	8	9.208	20.998	22821	8	8.017	23.490	22968*	28	19.576	3.575	
22678	8	5.636	17.214	22750	9	9.320	20.060	22822	8	9.842	23.000	22969	9	24.225	3.568	
22679*	23	6.159	17.547	22751	8	10.151	20.519	22823	8	10.903	23.004	22970	10	24.900	3.918	
22680	8	6.759	17.876	22752	8	10.803	20.456	22824	8	13.640	23.432	22971	22	0.198	4.870	
22681	8	8.285	17.864	22753	8	14.822	20.831	22825	8	15.914	23.459	22972	8	1.730	4.096	
22682	16	8.377	17.858	22754	9	15.436	20.476	22826	8	17.637	23.934	22973	19	4.684	4.715	
22683	8	11.272	17.292	22755	8	16.351	20.526	22827*	35	21.761	23.252	22974	17	5.688	4.190	
22684	8	12.589	17.805	22756	9	18.705	20.644	22828*	49	22.033	23.078	22975	10	8.830	4.566	
22685	13	14.374	17.884	22757	8	19.694	20.028	22829	12	22.300	23.882	22976	8	9.953	4.888	
22686	8	15.124	17.013	22758	15	20.258	20.420	22830	9	22.686	23.300	22977	8	10.153	4.837	
22687	44	15.332	17.110	22759	13	25.897	20.310	22831	8	22.687	23.780	22978	10	10.335	4.254	
22688	8	15.648	17.242	22760	8	0.302	21.916	22832	8	23.630	23.134	22979	8	10.674	4.993	
22689	8	15.706	17.365	22761	13	3.197	21.129	22833	8	24.217	23.479	22980*	20	10.776	4.121	
22690	8	15.840	17.020	22762	8	4.130	21.932	22834	8	24.512	23.486	22981	8	13.207	4.165	
22691	15	17.798	17.496	22763	15	4.529	21.324	22835	8	0.557	24.676	22982	8	13.358	4.840	
22692	8	18.443	17.800	22764	13	5.255	21.723	22836	8	0.883	24.912	22983	9	13.572	4.335	
22693	8	19.501	17.630	22765	8	5.300	21.736	22837	9	2.120	24.121	22984	9	14.008	4.655	
22694	8	19.521	17.934	22766	8	5.598	21.130	22838	10	2.836	24.785	22985	10	14.966	4.076	
22695	8	20.156	17.954	22767	10	5.606	21.324	22839	8	6.476	24.694	22986	8	19.562	4.916	
22696	8	23.408	17.861	22768	9	6.926	21.217	22840*	29	11.105	24.512	22987	13	19.670	4.464	
22697	8	24.866	17.941	22769	9	6.954	21.024	22841	8	11.984	24.521	22988	10	20.943	4.420	
22698	19	24.882	17.962	22770	13	7.060	21.414	22842	8	12.428	24.108	22989	13	21.550	4.640	
22699	8	25.654	17.827	22771	8	7.934	21.662	22843	14	17.134	24.560	22990	11	22.569	4.968	
22700	8	1.347	18.874	22772	9	8.650	21.987	22844	9	20.138	24.246	22991	8	24.911	4.894	
22701	10	2.259	18.162	22773	8	8.710	21.482	22845*	25	24.101	24.824	22992	19	0.023	5.557	
22702	8	4.720	18.344	22774	23	10.550	21.140	22846	14	24.750	24.244	22993	10	1.516	5.444	
22703	8	9.060	18.919	22775	14	11.659	21.014	22847	8	24.957	24.031	22994	8	1.896	5.803	
22704	18	9.060	18.475	22776	9	11.920	21.578	22848	8	24.980	24.700	22995	18	2.530	5.640	
22705	8	10.823	18.071	22777*	52	12.917	21.047	22849*	100	25.496	24.042	22996	8	4.464	5.600	
22706	12	13.016	18.280	22778	8	14.840	21.070	22850	8	0.843	25.226	22997*	25	4.743	5.850	
22707	11	13.174	18.884	22779	8	16.246	21.330	22851	8	0.852	25.864	22998	9	5.186	5.860	
22708	8	14.152	18.752	22780*	21	17.374	21.309	22852	12	1.820	25.400	22999	11	5.252	5.938	
22709	8	14.166	18.494	22781*	31	17.432	21.886	22853	8	3.607	25.161	23000	8	6.190	5.040	
22710	37	15.107	18.530	22782	12	17.468	21.887	22854	9	4.399	25.804	23001*	24	6.844	5.096	
22711	23	17.661	18.032	22783	9	20.798	21.036	22855	8	5.055	25.835	23002	9	10.324	5.763	
22712	8	17.730	18.034	22784	8	21.477	21.381	22856	16	8.524	25.344	23003	9	10.330	5.129	
22713	18	18.518	18.630	22785	9	22.043	21.108	22857	8	10.394	25.802	23004	9	10.565	5.164	
22714	11	19.973	18.338	22786	12	25.107	21.171	22858	38	11.717	25.584	23005	8	10.684	5.040	
22715	8	20.285	18.158	22787	8	25.276	21.476	22859	8	12.098	25.028	23006	10	12.117	5.450	
22716	8	23.074	18.110	22788	8	0.176	22.142	22860	46	14.900	25.919	23007	8	13.490	5.768	
22717	8	23.863	18.481	22789	8	1.396	22.094	22861	35	16.644	25.030	23008	8	13.732	5.606	
22718	8	1.959	19.087	22790	9	2.136	22.325	22862	8	18.122	25.718	23009	8	15.656	5.512	
22719	8	2.710	19.062	22791	8	2.416	22.832	22863	29	19.480	25.771	23010*	24	15.782	5.260	
22720	8	3.194	19.590	22792	8	2.991	22.620	22864	8	20.823	25.109	23011*	35	16.672	5.212	
22721	8	5.872	19.613	22793	8	3.260	22.349	22865	14	22.148	25.590	23012	11	17.052	5.354	
22722	8	7.619	19.896	22794*	40	3.406	22.948	22866	8	22.154	25.914	23013	11	18.076	5.734	
22723	9	7.706	19.678	22795	8	4.721	22.903	22867	8	23.448	25.690	23014	13	18.078	5.230	
22724	8	7.820	19.666	22796	9	5.825	22.670	22868	8	24.695	25.404	23015*	19	19.486	5.572	
22725	18	9.300	19.220	22797	10	6.024	22.109					23016	9	20.591	5.832	
22726	8	9.369	19.264	22798	13	6.564	22.487					23017	8	20.697	5.724	
22727	8	9.550	19.058	2272												

23029	8	9.100	6.166	23101	8	3.121	10.640	23173	8	12.361	13.524	23245	8	10.844	17.968	23317	8	12.900	20.666
23030	8	9.418	6.362	23102	9	5.023	10.624	23174	9	12.612	13.773	23246	10	12.441	17.760	23318	8	13.106	20.360
23031	8	11.622	6.682	23103	13	5.381	10.054	23175	10	13.628	13.510	23247	12	16.056	17.730	23319	8	13.224	20.443
23032	11	11.948	6.477	23104	13	5.630	10.581	23176	8	16.908	13.780	23248	8	16.546	17.501	23320	10	13.642	20.682
23033*	27	18.246	6.123	23105	8	6.652	10.750	23177	12	18.252	13.053	23249	11	17.510	17.004	23321	9	14.650	20.979
23034	8	18.380	6.038	23106	8	7.108	10.256	23178	9	18.436	13.482	23250	8	22.836	17.042	23322	8	15.822	20.059
23035	10	24.341	6.273	23107	13	7.211	10.174	23179	8	19.400	13.798	23251	22	22.939	17.970	23323*	28	17.034	20.644
23036	9	1.841	6.618	23108	8	7.218	10.020	23180	8	21.042	13.588	23252	8	23.089	17.550	23324	13	17.398	20.614
23037	9	2.149	7.931	23109	10	7.422	10.050	23181	8	25.704	13.722	23253	8	23.330	17.806	23325	8	18.539	20.544
23038	10	4.344	7.946	23110	11	10.088	10.590	23182	8	0.645	14.369	23254	8	23.414	17.752	23326	8	18.660	20.301
23039	8	4.363	7.684	23111	8	10.274	10.050	23183	16	0.728	14.644	23255	8	23.958	17.762	23327	8	19.498	20.238
23040	9	5.251	7.024	23112	8	13.754	10.248	23184	10	0.980	14.325	23256	8	25.646	17.218	23328	8	19.542	20.936
23041	11	6.031	7.706	23113	15	14.804	10.530	23185*	30	1.914	14.023	23257	8	0.125	18.064	23329	8	20.341	20.078
23042	11	7.357	7.614	23114*	41	14.942	10.812	23186	8	3.122	14.114	23258	9	1.428	18.488	23330	8	20.454	20.770
23043	11	7.450	7.760	23115*	21	16.706	10.995	23187	10	7.279	14.946	23259	8	2.459	18.586	23331	11	21.300	20.846
23044	10	8.374	7.260	23116	8	18.223	10.913	23188	8	9.034	14.766	23260	8	3.422	18.289	23332	13	21.319	20.860
23045	11	8.766	7.601	23117	8	18.974	10.659	23189	10	12.038	14.194	23261	14	4.686	18.800	23333	8	21.686	20.550
23046	8	9.099	7.736	23118	22	19.632	10.808	23190	11	13.578	14.002	23262	12	5.073	18.737	23334*	20	23.936	20.714
23047	8	11.352	7.730	23119	10	0.396	11.376	23191	11	14.997	14.360	23263	8	5.682	18.321	23335	8	24.185	20.255
23048	10	11.508	7.050	23120	15	0.531	11.972	23192	10	15.238	14.849	23264	12	6.910	18.328	23336	9	25.527	20.630
23049	17	15.288	7.210	23121	8	1.821	11.740	23193	8	15.689	14.438	23265	8	7.249	18.366	23337	12	2.706	21.160
23050	20	18.582	7.912	23122	8	2.316	11.940	23194	11	15.814	14.415	23266	12	8.034	18.114	23338	8	2.880	21.463
23051	14	18.679	7.530	23123	8	4.180	11.310	23195	9	15.924	14.288	23267	8	11.820	18.308	23339	13	5.888	21.472
23052	16	19.179	7.162	23124	8	5.106	11.374	23196	8	18.320	14.370	23268	11	12.298	18.286	23340	10	6.778	21.520
23053	11	21.681	7.560	23125	8	5.533	11.766	23197	19	22.464	14.220	23269	10	12.864	18.128	23341	17	7.000	21.620
23054	10	21.852	7.570	23126*	25	6.630	11.541	23198	12	22.604	14.090	23270	8	13.080	18.106	23342	11	7.046	21.805
23055	8	22.110	7.929	23127	8	8.679	11.341	23199	8	22.770	14.158	23271	20	14.908	18.362	23343	8	7.276	21.930
23056*	30	22.742	7.426	23128	13	8.872	11.647	23200	8	22.908	14.820	23272	10	16.436	18.392	23344	12	8.306	21.550
23057	8	23.358	7.086	23129	12	9.344	11.970	23201	8	22.926	14.658	23273	10	18.820	18.040	23345	10	8.356	21.650
23058	8	24.112	7.939	23130	10	9.552	11.340	23202	18	0.244	15.136	23274	10	19.013	18.568	23346	8	8.692	21.854
23059	23	24.872	7.382	23131*	14	9.838	11.853	23203	9	1.022	15.294	23275	8	20.695	18.430	23347	13	8.773	21.214
23060	8	0.039	8.019	23132	8	12.839	11.032	23204	9	1.778	15.168	23276	10	20.724	18.520	23348	14	9.601	21.621
23061	9	1.446	8.236	23133*	14	13.373	11.996	23205	8	6.750	15.300	23277	8	23.225	18.394	23349	8	10.806	21.202
23062	17	1.910	8.481	23134	8	13.642	11.434	23206	8	7.633	15.664	23278	8	23.872	18.180	23350	10	14.631	21.119
23063	8	2.900	8.583	23135	9	14.046	11.656	23207	8	9.468	15.016	23279	13	23.896	18.394	23351*	26	15.025	21.193
23064	8	3.697	8.168	23136	8	14.593	11.074	23208	10	9.769	15.443	23280	9	23.976	18.144	23352	10	16.624	21.661
23065	8	4.037	8.150	23137	10	15.372	11.820	23209	14	10.522	15.532	23281	14	24.186	18.062	23353	8	18.702	21.610
23066	16	4.116	8.120	23138	8	17.704	11.449	23210	8	10.828	15.018	23282	19	3.286	19.455	23354*	20	19.294	21.062
23067	11	4.942	8.500	23139	9	18.158	11.406	23211	10	11.263	15.370	23283	12	3.600	19.734	23355	8	21.153	21.563
23068	8	5.058	8.294	23140	8	18.292	11.061	23212	10	14.116	15.236	23284	10	4.079	19.549	23356	8	21.192	21.376
23069*	22	6.191	8.370	23141	8	18.410	11.726	23213	8	15.116	15.511	23285	8	6.656	19.294	23357	9	21.805	21.860
23070	10	7.788	8.368	23142	8	20.652	11.492	23214	9	16.906	15.862	23286	8	6.676	19.836	23358	10	22.728	21.932
23071	10	10.708	8.863	23143*	27	21.556	11.090	23215	11	17.008	15.956	23287	14	7.764	19.600	23359*	19	23.884	21.444
23072	10	10.895	8.124	23144	24	23.790	11.894	23216	8	18.094	15.302	23288	13	8.004	19.240	23360	8	0.566	22.218
23073	8	12.428	8.588	23145	8	23.879	11.439	23217	8	18.897	15.994	23289	20	8.506	19.246	23361	10	2.708	22.767
23074	12	12.585	8.440	23146	8	25.712	11.612	23218	20	19.606	15.159	23290	8	9.176	19.228	23362	8	4.917	22.611
23075	8	16.155	8.292	23147	13	0.482	12.034	23219	8	19.761	15.262	23291	8	9.226	19.534	23363	12	5.340	22.006
23076	8	20.782	8.858	23148	8	2.558	12.719	23220	8	20.221	15.470	23292	8	10.182	19.720	23364	10	6.044	22.910
23077	8	21.596	8.306	23149	8	3.606	12.792	23221*	30	24.078	15.932	23293	8	10.890	19.351	23365	21	7.854	22.172
23078	9	22.246	8.727	23150	12	5.086	12.914	23222	10	2.373	16.949	23294	8	12.916	19.757	23366	9	8.374	22.669
23079	14	22.925	8.058	23151*	18	7.914	12.320	23223	8	2.540	16.651	23295	8	13.160	19.226	23367	11	8.760	22.537
23080	8	23.236	8.597	23152	8	9.155	12.558	23224	8	5.338	16.756	23296	8	13.391	19.150	23368	10	10.328	22.454
23081	10	23.538	8.346	23153	10	9.972	12.812	23225	9	5.650	16.800	23297	11	13.678	19.200	23369	9	12.241	22.472
23082	8	25.201	8.446	23154	10	12.420	12.044	23226	8	7.806	16.372	23298	8	15.360	19.212	23370	20	14.158	22.030
23083	14	25.295	8.650	23155	8	13.078	12.384	23227	8	8.281	16.460	23299*	31	15.650	19.274	23371	8	15.646	22.855
23084	9	1.860	9.242	23156	10	13.965	12.907	23228	22	13.149	16.132	23300	8	16.670	19.420	23372	10	18.278	22.056
23085	8	5.158	9.310	23157	11	16.500	12.402	23229	8	14.324	16.040	23301	8	18.838	19.972	23373	8	19.878	22.640
23086	10	6.354	9.730	23158	17	19.633	12.964	23230	10	20.107	16.597	23302	13	19.656	19.010	23374	8	20.585	22.962
23087	8	7.314	9.436	23159	9	20.532	12.229	23231	8	20.728	16.756	23303	8	20.160	19.550	23375	12	22.746	22.400
23088	8	8.176	9.942	23160	12	20.532	12.981	23232	8	25.672	16.139	23304*	26	21.628	19.561	23376	10	23.146	22.880
23089	8	8.682	9.909	23161	8	21.128	12.230	23233	8	0.966	17.874	23305	10	22.514	19.193	23377	8	24.437	22.118
23090	12	11.360	9.500	23162	8	23.024	12.414	23234	8	1.660	17.900	23306	8	1.198	20.971	23378	41	24.926	22.840
23091	10	12.038	9.424	23163	10	25.865	12.665	23235	9	2.424	17.936	23307	12	3.485	20.294	23379	12	25.219	

23389	22	7.045	23.298	<div>R.A. 8^h 16^m</div> <div>Plate 456; 1915 Feb. 7.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—01765 +00558 —1389</div> <div>D E F</div> <div>—00543 —01786 +0275</div> <div>Mag.=15.5—1.10√d</div>	23556	19	18.609	4.472	23628	13	19.570	7.668	23700	10	19.310	10.182
23390	8	8.484	23.365		23557	12	18.946	4.223	23629	17	20.928	7.295	23701	12	20.818	10.492
23391	8	9.017	23.512		23558	8	18.970	4.628	23630	12	21.320	7.721	23702	8	21.014	10.762
23392	8	11.024	23.543		23559	8	19.587	4.303	23631	11	23.388	7.546	23703*	35	22.935	10.764
23393	8	11.376	23.714		23560	24	19.700	4.637	23632	17	24.186	7.968	23704	9	23.248	10.284
23394	8	11.952	23.379		23561	11	0.085	5.086	23633	15	24.726	7.864	23705	8	24.498	10.189
23395	8	13.524	23.303		23562*	25	0.621	5.518	23634	8	24.800	7.212	23706	10	25.721	10.203
23396	20	13.836	23.722		23563	8	3.366	5.307	23635	24	25.586	7.867	23707	25	1.388	11.994
23397	19	14.636	23.826		23564	20	5.736	5.588	23636	15	25.748	7.700	23708	10	1.476	11.536
23398	9	15.058	23.540		23565	8	5.794	5.960	23637	19	0.478	8.172	23709	9	2.574	11.754
23399	8	16.113	23.236	23566	8	6.224	5.481	23638	13	1.094	8.450	23710	12	3.938	11.086	
23400	19	16.220	23.364	23567	19	6.276	5.715	23639	8	1.664	8.038	23711	12	4.856	11.560	
23401	8	16.356	23.410	23568	10	7.100	5.947	23640	11	2.762	8.526	23712	10	5.120	11.195	
23402	10	16.525	23.684	23569	10	7.152	5.339	23641	19	2.853	8.732	23713	10	5.512	11.990	
23403	10	17.866	23.660	23570	8	9.974	5.754	23642	8	5.495	8.222	23714	8	8.020	11.934	
23404	8	19.003	23.553	23571	8	11.572	5.045	23643	8	7.539	8.792	23715*	20	8.676	11.886	
23405	8	22.012	23.170	23572	8	13.154	5.933	23644	8	8.862	8.415	23716	11	8.839	11.470	
23406	8	22.744	23.802	23573	11	13.704	5.700	23645	14	11.117	8.091	23717	16	9.640	11.150	
23407	28	22.816	23.140	23574	10	14.248	5.633	23646*	33	13.200	8.960	23718	8	10.447	11.614	
23408	13	24.212	23.698	23575*	31	14.844	5.896	23647	8	13.774	8.492	23719	11	10.534	11.472	
23409	8	24.859	23.336	23576	8	19.592	5.836	23648	10	15.543	8.016	23720	10	10.690	11.140	
23410	13	24.952	23.790	23577	8	21.436	5.699	23649	10	15.672	8.352	23721	15	11.402	11.476	
23411	8	25.086	23.313	23578	8	22.562	5.166	23650	13	16.872	8.028	23722	11	11.613	11.396	
23412*	18	1.748	24.825	23579	8	23.898	5.424	23651*	36	17.142	8.744	23723	12	12.562	11.418	
23413	12	2.388	24.238	23580	8	25.194	5.559	23652	8	19.648	8.530	23724	8	15.422	11.690	
23414	8	2.592	24.024	23581	8	25.848	5.300	23653	9	24.500	8.074	23725	26	16.867	11.508	
23415	8	2.624	24.688	23582	8	1.539	6.319	23654	10	25.764	8.580	23726	10	18.927	11.538	
23416*	100	3.120	24.024	23583	11	1.875	6.367	23655	9	1.472	9.104	23727	9	20.306	11.570	
23417	12	4.318	24.720	23584	18	4.274	6.336	23656	13	2.184	9.936	23728	8	20.384	11.942	
23418	11	5.598	24.288	23585	8	4.916	6.225	23657	8	5.270	9.509	23729	11	20.606	11.994	
23419	8	11.724	24.918	23586	11	7.039	6.532	23658	10	7.186	9.926	23730*	29	21.358	11.774	
23420	8	13.213	24.514	23587	8	7.258	6.836	23659	10	7.197	9.176	23731	11	25.510	11.639	
23421	12	13.234	24.573	23588	12	7.556	6.917	23660*	27	8.295	9.036	23732	8	2.189	12.111	
23422	23	14.034	24.361	23589	8	9.288	6.874	23661	9	9.022	9.789	23733	12	3.477	12.740	
23423	9	14.472	24.462	23590	9	9.740	6.100	23662	10	9.946	9.950	23734	18	3.506	12.566	
23424	8	15.341	24.142	23591	8	11.072	6.920	23663	11	11.120	9.611	23735	8	3.734	12.784	
23425	10	15.908	24.072	23592	20	11.795	6.124	23664	10	11.500	9.276	23736	10	4.558	12.779	
23426	8	18.084	24.189	23593	22	11.806	6.469	23665	12	12.043	9.058	23737	10	4.872	12.684	
23427	12	18.944	24.304	23594	8	12.090	6.400	23666	10	12.370	9.734	23738	8	5.254	12.035	
23428	8	19.302	24.544	23595	8	13.900	6.743	23667	8	13.396	9.593	23739	9	5.550	12.242	
23429	8	21.342	24.056	23596	16	14.592	6.058	23668	10	13.469	9.360	23740	19	6.076	12.074	
23430	8	22.434	24.036	23597	24	17.400	6.072	23669	9	17.786	9.208	23741	16	8.844	12.867	
23431	9	22.663	24.981	23598	13	18.076	6.276	23670	17	18.064	9.429	23742	10	10.414	12.516	
23432	13	23.104	24.816	23599	8	18.870	6.464	23671	8	18.420	9.394	23743*	20	10.458	12.160	
23433	8	1.109	25.694	23600	11	21.224	6.383	23672	14	18.469	9.341	23744	13	12.796	12.670	
23434	9	2.344	25.399	23601	12	22.068	6.756	23673	24	19.091	9.208	23745	8	13.124	12.225	
23435	9	3.960	25.098	23602	8	22.076	6.234	23674	12	19.102	9.258	23746	8	13.201	12.371	
23436	8	7.110	25.406	23603	11	22.896	6.190	23675*	20	20.526	9.749	23747	12	13.380	12.655	
23437	8	7.408	25.990	23604	10	24.622	6.990	23676*	15	20.588	9.752	23748	11	13.629	12.726	
23438	10	8.692	25.531	23605	10	24.896	6.279	23677	12	21.290	9.900	23749	11	14.587	12.448	
23439	9	9.147	25.829	23606	23	25.247	6.964	23678	12	22.115	9.817	23750	10	16.716	12.520	
23440	9	9.257	25.034	23607	10	25.803	6.134	23679	11	22.496	9.134	23751	19	18.790	12.507	
23441	14	9.262	25.470	23608	43	0.287	7.540	23680	8	23.394	9.876	23752	8	19.556	12.592	
23442	8	9.304	25.788	23609	25	2.414	7.470	23681	10	23.524	9.439	23753	12	24.374	12.428	
23443	10	9.800	25.300	23610	12	5.539	7.672	23682	8	23.563	9.084	23754	14	25.855	12.040	
23444	8	11.198	25.158	23611	20	6.565	7.432	23683	18	24.826	9.686	23755	8	3.330	13.800	
23445	17	11.414	25.034	23612	8	6.960	7.330	23684	8	3.468	10.772	23756	11	4.286	13.156	
23446	18	11.693	25.260	23613	18	7.245	7.655	23685	11	4.060	10.890	23757	12	6.796	13.383	
23447*	25	12.642	25.356	23614	10	7.730	7.427	23686	8	4.288	10.892	23758	9	6.814	13.136	
23448	8	12.970	25.360	23615	12	7.990	7.816	23687	13	4.868	10.880	23759	8	10.694	13.822	
23449	25	13.400	25.833	23												

23772	8	24.992	13.610	23844	8	23.336	16.554	23916	11	7.116	19.928	23988	8	14.713	21.915	24060	10	24.988	23.714
23773	10	25.715	13.312	23845	8	23.371	16.342	23917	15	7.891	19.224	23989	8	15.640	21.982	24061	14	0.867	24.920
23774	23	0.095	14.336	23846	9	0.500	17.154	23918	8	8.140	19.460	23990	10	16.504	21.674	24062	24	6.617	24.578
23775	13	0.232	14.206	23847	10	0.761	17.660	23919	20	9.670	19.410	23991	12	17.100	21.079	24063	22	6.702	24.034
23776	8	0.477	14.921	23848	10	1.005	17.911	23920	8	10.535	19.282	23992	8	17.264	21.644	24064	24	7.592	24.232
23777	8	0.545	14.931	23849	8	1.087	17.857	23921	10	10.687	19.326	23993	10	17.796	21.380	24065	9	7.682	24.666
23778*	29	5.720	14.379	23850	10	1.631	17.864	23922	12	10.997	19.256	23994	11	18.509	21.611	24066	10	8.400	24.880
23779	9	6.470	14.816	23851	8	3.317	17.295	23923	8	11.235	19.513	23995	16	19.624	21.970	24067	12	9.192	24.430
23780	9	6.487	14.382	23852	8	3.470	17.920	23924	15	11.740	19.379	23996	9	20.864	21.282	24068*	42	13.600	24.060
23781	13	6.795	14.219	23853	8	4.489	17.210	23925	10	12.328	19.558	23997	8	21.242	21.259	24069	11	15.506	24.222
23782	8	7.912	14.258	23854	11	4.672	17.180	23926	8	13.035	19.180	23998	26	21.303	21.988	24070	8	15.888	24.130
23783*	32	9.278	14.570	23855	8	5.536	17.380	23927	12	13.839	19.370	23999	12	21.873	21.873	24071	24	16.121	24.378
23784	16	9.650	14.537	23856	9	6.748	17.720	23928	11	13.881	19.648	24000	23	22.232	21.000	24072	10	16.769	24.726
23785	8	9.956	14.180	23857	10	7.895	17.390	23929*	34	14.080	19.830	24001	8	23.167	21.194	24073	18	17.004	24.010
23786	9	11.874	14.030	23858	11	8.555	17.160	23930	8	14.641	19.340	24002	25	23.598	21.372	24074	8	18.090	24.741
23787	8	11.967	14.214	23859	8	9.162	17.350	23931	18	15.112	19.343	24003	9	23.770	21.544	24075	18	18.292	24.230
23788	10	14.608	14.734	23860	10	9.720	17.170	23932	14	15.138	19.788	24004	12	24.451	21.011	24076	10	21.320	24.482
23789	8	15.179	14.204	23861	9	10.211	17.914	23933	8	15.230	19.331	24005	14	25.168	21.508	24077*	33	21.402	24.563
23790	10	15.666	14.126	23862	9	10.468	17.804	23934	8	15.339	19.484	24006	11	25.500	21.468	24078	8	0.111	25.524
23791	8	16.972	14.716	23863	10	11.248	17.244	23935	12	15.618	19.695	24007	10	0.458	22.046	24079	40	0.292	25.812
23792	11	17.200	14.660	23864	10	12.400	17.850	23936*	28	17.800	19.312	24008	15	0.481	22.512	24080	8	0.432	25.095
23793	15	18.404	14.767	23865	8	13.062	17.989	23937	13	17.802	19.619	24009	9	0.887	22.985	24081	20	0.792	25.596
23794	12	19.714	14.836	23866	9	13.100	17.694	23938	9	18.968	19.855	24010*	43	2.664	22.926	24082	8	1.312	25.212
23795	11	21.220	14.157	23867	13	13.334	17.266	23939	8	19.026	19.320	24011	15	2.956	22.664	24083	12	5.490	25.320
23796	15	21.616	14.538	23868	19	16.212	17.900	23940	12	20.640	19.670	24012	18	3.098	22.744	24084	16	8.724	25.606
23797	10	23.416	14.792	23869	10	17.967	17.040	23941	8	20.796	19.994	24013*	32	4.930	22.371	24085	15	10.438	25.865
23798	19	24.572	14.232	23870	10	18.580	17.301	23942	9	24.344	19.624	24014	9	6.869	22.860	24086	16	11.519	25.740
23799	11	25.062	14.512	23871	8	18.853	17.407	23943	8	24.994	19.599	24015	8	7.990	22.264	24087	13	11.758	25.419
23800	8	25.873	14.022	23872*	24	19.932	17.340	23944*	25	1.647	20.810	24016	8	9.132	22.622	24088	10	12.162	25.080
23801	10	4.408	15.230	23873*	31	20.453	17.197	23945	10	1.894	20.351	24017	23	10.254	22.563	24089	20	12.540	25.327
23802	10	5.126	15.748	23874	19	21.826	17.256	23946	8	2.645	20.498	24018	8	10.259	22.234	24090	16	12.886	25.806
23803	8	7.722	15.218	23875	10	22.448	17.088	23947	12	3.242	20.709	24019	10	10.980	22.847	24091	17	13.668	25.892
23804	11	8.692	15.740	23876	37	25.190	17.726	23948	8	4.217	20.807	24020	8	11.488	22.471	24092	12	14.324	25.452
23805	10	9.434	15.924	23877	24	0.614	18.082	23949	22	4.351	20.941	24021	12	11.690	22.134	24093*	22	14.728	25.441
23806	9	11.266	15.373	23878	8	0.907	18.500	23950*	55	4.627	20.410	24022	13	13.346	22.100	24094	25	15.027	25.356
23807	15	11.294	15.006	23879	8	1.555	18.280	23951	8	5.790	20.023	24023	10	14.588	22.532	24095*	28	15.166	25.412
23808	8	11.520	15.146	23880	14	1.576	18.494	23952	8	5.886	20.146	24024	12	16.183	22.496	24096	10	15.396	25.099
23809	8	12.388	15.488	23881	11	1.656	18.240	23953	9	6.005	20.430	24025	10	16.794	22.576	24097	9	15.900	25.260
23810	10	13.211	15.823	23882	18	1.862	18.158	23954	12	9.328	20.586	24026	19	18.022	22.395	24098	12	16.863	25.256
23811	11	14.032	15.972	23883	10	3.804	18.890	23955	19	9.374	20.470	24027	10	19.123	22.854	24099	11	16.872	25.193
23812	11	16.522	15.884	23884*	23	4.474	18.424	23956	8	9.538	20.439	24028	10	19.294	22.028	24100	12	16.910	25.967
23813	8	17.613	15.240	23885	8	5.800	18.122	23957	10	9.819	20.473	24029	12	22.332	22.449	24101	13	16.973	25.266
23814	8	18.732	15.764	23886	20	5.911	18.360	23958	13	12.386	20.070	24030*	52	22.946	22.268	24102	8	20.957	25.912
23815	23	19.566	15.930	23887	20	6.112	18.923	23959	13	12.699	20.413	24031	13	23.752	22.643	24103	19	21.234	25.326
23816*	35	22.322	15.706	23888	10	7.040	18.510	23960	13	15.896	20.390	24032	8	23.824	22.070	24104	9	22.099	25.025
23817*	22	22.360	15.987	23889	22	7.086	18.300	23961	8	17.962	20.207	24033	8	24.872	22.570	24105	8	23.335	25.741
23818	9	22.872	15.854	23890	8	7.167	18.187	23962	8	18.072	20.105	24034	9	0.500	23.914	24106	10	23.652	25.736
23819	14	24.356	15.013	23891	15	10.196	18.224	23963	10	19.550	20.328	24035	34	0.556	23.252				
23820	17	24.368	15.029	23892	10	10.468	18.020	23964	12	20.014	20.650	24036	19	1.962	23.792				
23821	8	25.752	15.330	23893	16	12.016	18.174	23965	10	20.226	20.524	24037	10	2.610	23.420				
23822*	32	1.728	16.029	23894	11	13.737	18.476	23966*	52	20.579	20.116	24038*	22	2.705	23.872				
23823	8	2.074	16.960	23895	9	14.184	18.320	23967	13	21.308	20.480	24039	9	2.838	23.393				
23824	9	3.328	16.218	23896	10	15.380	18.928	23968	9	21.648	20.824	24040	11	3.761	23.484				
23825	11	3.968	16.650	23897	20	16.410	18.717	23969	18	21.730	20.379	24041	10	3.774	23.331				
23826	12	4.644	16.532	23898	9	17.650	18.975	23970	8	22.216	20.566	24042	8	6.780	23.844				
23827*	29	5.234	16.754	23899	9	20.172	18.106	23971	8	22.970	20.884	24043	8	6.789	23.594				
23828	10	6.088	16.982	23900	12	20.531	18.880	23972	10	24.792	20.845	24044	11	7.323	23.756				
23829	10	7.544	16.461	23901	25	20.955	18.123	23973	10	25.515	20.815	24045	10	7.334	23.370				
23830	13	8.028	16.139	23902	9	24.428	18.907	23974*	21	1.606	21.540	24046	11	7.450	23.960				
23831	10	9.744	16.113	23903	11	24.504	18.699	23975	8	3.930	21.594	24047	9	8.250	23.980				
23832	8	10.018	16.473	23904	8	25.132	18.176	23976	14	4.848	21.794	24048	17	9.406	23.698				
23833	14	11.240	16.325	23905	12	0.206	19.309	23977	8	7.408	21.531	24049	20	10.130	23.800				
23834	10	12.690	16.022	23906	8	0.758	19.254	23978	17	7.507	21.774	24050	10	10.470	23.796				
23835	10	15.050	16.140	23907	8	1.667	19.910	23979*	26	7.691	21.086	24051	15	11.136	23.640				
23836	8	16.510	16.662	23908															

24155	15	11.443	0.194	24227	12	10.568	5.843	24299	14	13.124	9.844	24371	20	4.715	13.260	24443*	52	2.833	17.723
24156	17	12.278	0.426	24228*	46	11.544	5.114	24300	8	15.266	9.788	24372	18	4.996	13.668	24444	21	3.802	17.787
24157	14	12.953	0.555	24229*	36	15.226	5.598	24301	30	16.526	9.722	24373	12	6.016	13.506	24445	10	6.258	17.700
24158	34	19.593	0.284	24230	12	16.290	5.771	24302	16	17.345	9.600	24374	22	7.507	13.022	24446	22	7.136	17.756
24159	26	21.432	0.283	24231	12	19.269	5.122	24303	14	17.625	9.228	24375	18	9.264	13.296	24447	10	7.358	17.858
24160	10	22.057	0.830	24232	10	24.476	5.607	24304	8	17.824	9.960	24376	36	10.954	13.007	24448*	36	8.096	17.326
24161	10	22.379	0.224	24233	15	0.439	6.209	24305	32	18.442	9.642	24377	14	11.384	13.634	24449	12	9.685	17.586
24162	12	23.153	0.858	24234	12	2.171	6.994	24306	12	18.806	9.248	24378	20	11.646	13.785	24450	18	10.910	17.834
24163	16	24.238	0.309	24235	12	2.442	6.283	24307*	40	18.945	9.322	24379	10	13.014	13.534	24451	26	11.382	17.114
24164	26	25.822	0.396	24236	36	2.796	6.956	24308*	37	19.114	9.899	24380	22	13.056	13.174	24452	12	13.506	17.026
24165	30	0.686	1.694	24237	19	3.352	6.124	24309	10	19.413	9.637	24381	10	14.452	13.774	24453	10	14.758	17.896
24166	8	2.236	1.766	24238	28	6.564	6.986	24310	30	21.194	9.598	24382	27	17.473	13.692	24454*	80	15.574	17.624
24167	36	4.454	1.467	24239	12	7.997	6.890	24311	12	22.433	9.656	24383*	54	20.367	13.747	24455	16	15.584	17.680
24168	26	4.738	1.666	24240	24	10.174	6.686	24312	10	23.315	9.708	24384	22	20.398	13.967	24456	30	15.986	17.095
24169	12	4.862	1.292	24241	24	10.629	6.488	24313	34	23.964	9.254	24385	22	22.293	13.201	24457	14	16.994	17.486
24170	16	8.366	1.458	24242	17	10.723	6.598	24314	8	24.544	9.262	24386	8	22.383	13.102	24458	10	17.374	17.666
24171*	41	12.048	1.804	24243	16	11.522	6.655	24315	16	25.005	9.425	24387*	62	22.414	13.196	24459	10	19.520	17.363
24172	12	12.372	1.376	24244	16	12.336	6.956	24316	16	25.356	9.096	24388	20	23.985	13.467	24460	8	20.659	17.309
24173	16	12.432	1.774	24245	8	12.686	6.302	24317	54	0.515	10.784	24389	8	24.425	13.405	24461	16	21.492	17.891
24174*	54	12.442	1.584	24246*	36	14.556	6.274	24318	22	3.302	10.194	24390	48	25.886	13.794	24462	20	21.970	17.296
24175	12	12.581	1.976	24247	26	16.892	6.754	24319	28	4.300	10.128	24391	28	2.185	14.234	24463	30	25.764	17.656
24176	24	14.375	1.290	24248	25	18.057	6.096	24320*	40	6.014	10.627	24392	20	2.678	14.510	24464	12	2.089	18.910
24177	14	14.994	1.092	24249	28	19.736	6.686	24321	10	6.914	10.740	24393	8	3.487	14.012	24465	16	2.164	18.702
24178	8	16.974	1.276	24250	16	24.956	6.278	24322	24	7.026	10.825	24394	8	3.625	14.488	24466	37	7.328	18.098
24179*	38	17.138	1.554	24251	28	25.402	6.755	24323	14	7.322	10.862	24395	36	5.074	14.264	24467*	78	7.786	18.660
24180	17	18.022	1.236	24252	10	25.577	6.206	24324*	80	7.864	10.825	24396	10	9.294	14.258	24468	25	9.186	18.328
24181	32	19.015	1.974	24253	18	0.942	7.557	24325	8	7.956	10.388	24397	18	9.338	14.498	24469	14	11.796	18.286
24182	34	23.995	1.126	24254	28	1.744	7.976	24326*	38	8.418	10.676	24398	14	9.636	14.501	24470	12	13.165	18.393
24183	21	24.886	1.706	24255	24	2.284	7.865	24327	15	9.892	10.044	24399	17	10.579	14.316	24471	19	13.517	18.756
24184	22	4.242	2.669	24256	36	3.146	7.860	24328	24	13.494	10.786	24400	14	11.656	14.416	24472*	36	14.778	18.167
24185*	68	4.516	2.226	24257	30	3.306	7.692	24329	26	15.176	10.414	24401	24	13.004	14.572	24473	13	16.164	18.152
24186	32	5.828	2.936	24258	26	3.754	7.484	24330	12	15.352	10.526	24402	8	13.632	14.746	24474	8	16.300	18.984
24187	28	7.494	2.864	24259	22	3.892	7.494	24331	10	16.492	10.846	24403	8	15.255	14.246	24475	8	17.168	18.876
24188	17	8.861	2.098	24260	16	5.154	7.936	24332	12	23.182	10.833	24404	12	16.700	14.690	24476	14	20.026	18.035
24189	14	11.212	2.078	24261	17	5.407	7.512	24333	20	3.102	11.636	24405	8	17.394	14.272	24477*	46	20.482	18.041
24190	22	11.442	2.824	24262	19	9.880	7.098	24334	9	3.656	11.980	24406	16	17.730	14.532	24478	12	20.688	18.324
24191	24	11.740	2.776	24263	32	11.670	7.184	24335	21	6.048	11.196	24407	8	20.453	14.876	24479	14	22.443	18.636
24192	18	12.046	2.157	24264	32	13.566	7.121	24336	16	9.633	11.158	24408*	36	20.472	14.470	24480	42	23.413	18.442
24193	20	15.219	2.726	24265	19	16.057	7.484	24337	12	14.228	11.717	24409	21	22.608	14.904	24481	30	4.651	19.276
24194	10	16.356	2.094	24266	8	18.216	7.015	24338	8	15.968	11.793	24410	22	25.165	14.756	24482	10	9.248	19.522
24195	22	17.362	2.265	24267	14	18.664	7.103	24339	12	16.013	11.824	24411	28	1.976	15.017	24483	10	11.206	19.868
24196*	52	19.066	2.342	24268	35	21.958	7.274	24340	17	17.976	11.022	24412	32	1.994	15.034	24484	34	11.336	19.804
24197	17	19.387	2.706	24269	13	21.967	7.558	24341	21	18.926	11.450	24413	12	3.794	15.629	24485	13	11.854	19.536
24198	34	21.214	2.156	24270*	37	23.292	7.654	24342	18	20.042	11.819	24414	8	4.012	15.978	24486	12	12.394	19.690
24199	14	22.404	2.812	24271	36	24.556	7.450	24343	8	21.564	11.753	24415	14	5.664	15.304	24487	14	16.236	19.923
24200	8	24.500	2.774	24272	8	2.058	8.076	24344	36	22.884	11.267	24416	30	6.183	15.820	24488	9	16.837	19.162
24201	10	24.696	2.216	24273	11	2.589	8.716	24345	8	23.382	11.420	24417	10	8.426	15.946	24489	10	19.856	19.732
24202	18	25.806	2.786	24274	14	3.334	8.574	24346	34	23.456	11.278	24418	8	10.690	15.608	24490	41	23.867	19.753
24203	12	0.642	3.296	24275	14	4.272	8.344	24347	10	23.535	11.236	24419	8	12.716	15.376	24491	10	2.752	20.259
24204	23	11.514	3.296	24276	16	5.258	8.463	24348	40	24.164	11.516	24420	8	13.664	15.523	24492	10	3.194	20.811
24205*	38	11.706	3.427	24277	14	11.154	8.926	24349	10	0.898	12.926	24421	26	13.794	15.764	24493	32	4.704	20.314
24206	30	12.597	3.536	24278	28	12.382	8.034	24350	22	1.974	12.434	24422	18	18.652	15.364	24494	12	5.258	20.026
24207*	54	13.177	3.118	24279	10	12.397	8.326	24351	24	3.451	12.031	24423	15	20.186	15.977	24495	28	5.557	20.844
24208*	46	13.186	3.168	24280	14	13.085	8.346	24352	8	3.965	12.248	24424*	36	20.388	15.055	24496	13	6.955	20.412
24209	11	13.706	3.244	24281*	56	13.710	8.257	24353	12	4.606	12.266	24425	16	21.072	15.447	24497	8	7.564	20.856
24210	20	19.327	3.126	24282	16	16.857	8.233	24354	14	5.836	12.917	24426	24	21.794	15.786	24498*	36	8.388	20.101
24211	14	20.607	3.800	24283	14	17.544	8.614	24355	35	7.981	12.425	24427	8	23.643	15.301	24499	12	9.382	20.701
24212	13	22.212	3.407	24284	17	19.306	8.785	24356	13	11.674	12.296	24428	10	23.661	15.204	24500	23	11.344	20.322
24213	17	23.545	3.834	24285	20	21.928	8.622	24357	32	15.683	12.377	24429*	40	24.386	15.375	24501	8	14.436	20.138
24214	40	4.186	4.856	24286	26	25.600	8.402	24358*	36	16.084	12.019	24430	14	9.217	16.060	24502	14	14.714	20.836
24215	16	7.806	4.064	24287	17	0.064	9.157	24359*	56	17.189	12.764	24431	13	10.476	16.112	24503	10	15.548	20.153
24216	14	10.628	4.135	24288	14	0.973	9.892	24360	30	17.192	12.837	24432	32	10.818	16.649	24504	34	17.243	20.704
24217	38	15.994	4.105	24289	10	1.095	9.452	24361	32	18.096	12.535								

24515	34	4.700	21.328	24587	19	6.854	25.964	24677	9	20.824	1.004	24749	20	10.986	6.445	24821	8	21.410	11.416
24516	16	5.876	21.280	24588	34	6.912	25.294	24678	8	22.108	1.100	24750	8	12.551	6.979	24822*	40	22.927	11.571
24517	8	6.542	21.379	24589	28	7.706	25.250	24679	8	22.198	1.912	24751	8	15.766	6.679	24823	10	25.136	11.413
24518	15	8.579	21.273	24590	23	8.112	25.816	24680	8	23.408	1.138	24752	11	17.950	6.030	24824	12	25.184	11.094
24519	8	9.902	21.881	24591	28	8.225	25.836	24681*	26	3.696	2.678	24753	12	20.658	6.944	24825	8	25.316	11.053
24520	8	10.274	21.836	24592	8	9.100	25.884	24682	13	12.831	2.863	24754	8	22.412	6.264	24826	9	1.536	12.350
24521	14	11.544	21.496	24593	20	9.394	25.776	24683	10	14.052	2.234	24755	28	23.246	6.814	24827	8	1.554	12.326
24522	12	14.172	21.663	24594	10	10.746	25.206	24684*	38	14.809	2.798	24756*	30	0.961	7.933	24828	8	4.090	12.324
24523	26	16.556	21.606	24595	28	12.087	25.696	24685	8	15.709	2.629	24757	13	2.226	7.718	24829	8	6.290	12.200
24524	13	16.616	21.763	24596	36	12.586	25.737	24686	13	16.014	2.356	24758	9	3.064	7.017	24830	8	13.142	12.258
24525	34	17.149	21.544	24597	26	13.362	25.107	24687	13	16.016	2.221	24759	23	5.559	7.662	24831	13	15.337	12.650
24526	16	19.205	21.274	24598	18	14.586	25.893	24688	8	16.664	2.950	24760	8	5.986	7.506	24832	8	17.248	12.066
24527	36	19.458	21.166	24599	30	16.446	25.174	24689	8	16.856	2.000	24761	8	6.457	7.804	24833	9	17.586	12.664
24528	37	19.826	21.066	24600	12	17.796	25.516	24690	8	17.404	2.084	24762	8	6.518	7.406	24834	18	18.164	12.056
24529	39	23.111	21.957	24601	40	18.016	25.540	24691	8	19.599	2.328	24763	14	13.394	7.356	24835	12	19.696	12.982
24530	50	25.029	21.536	24602	12	19.405	25.756	24692	12	21.750	2.324	24764*	28	13.919	7.216	24836	11	20.098	12.248
24531	28	25.577	21.931	24603	28	21.349	25.987	24693	10	23.321	2.832	24765	9	16.220	7.699	24837	8	20.800	12.070
24532	12	0.024	22.470	24604	31	22.308	25.092	24694*	18	23.634	2.278	24766	17	20.275	7.424	24838	8	23.846	12.146
24533	76	0.630	22.284	24605	17	22.976	25.904	24695	8	0.036	3.096	24767	9	22.156	7.140	24839*	35	24.275	12.361
24534	21	1.450	22.654	24606	26	23.404	25.902	24696	8	2.130	3.042	24768	17	24.559	7.218	24840	11	24.720	12.232
24535	10	2.464	22.742	24607	32	24.458	25.434	24697	12	3.441	3.043	24769	8	24.897	7.766	24841	8	0.001	13.490
24536	21	4.842	22.914	24608	16	25.095	25.380	24698	8	3.983	3.514	24770	8	25.026	7.800	24842	8	0.020	13.060
24537*	56	5.402	22.529					24699	21	4.704	3.034	24771	10	25.122	7.114	24843	12	0.024	13.075
24538	8	6.424	22.010					24700	10	5.106	3.311	24772	9	3.280	8.658	24844	57	0.125	13.485
24539	21	6.984	22.494					24701	11	6.098	3.069	24773	12	4.300	8.896	24845	9	1.700	13.746
24540	28	7.808	22.505					24702	8	12.730	3.705	24774	8	4.828	8.048	24846	8	3.940	13.005
24541*	28	7.816	22.514					24703	8	13.944	3.255	24775	8	5.578	8.630	24847	8	4.549	13.291
24542	34	8.900	22.946					24704	8	16.986	3.268	24776	10	6.447	8.884	24848	9	7.082	13.832
24543	16	9.249	22.206					24705	8	16.996	3.924	24777	8	8.264	8.700	24849	19	7.662	13.344
24544	12	12.164	22.798					24706	16	17.192	3.975	24778*	24	19.771	8.492	24850	18	7.668	13.018
24545	21	12.996	22.234					24707	8	17.532	3.044	24779	8	19.952	8.066	24851	12	9.536	13.112
24546	26	16.016	22.893					24708	8	19.497	3.836	24780	8	21.232	8.507	24852	24	10.396	13.040
24547	19	16.244	22.338					24709	9	20.832	3.891	24781	24	25.044	8.963	24853	12	10.576	13.851
24548	12	16.658	22.214					24710	9	25.910	3.224	24782	20	1.643	9.530	24854	8	13.849	13.640
24549	34	18.119	22.910					24711	10	1.186	4.110	24783	8	2.227	9.534	24855*	32	16.694	13.508
24550	14	20.476	22.424					24712*	40	1.846	4.471	24784	9	2.686	9.694	24856	8	17.330	13.372
24551	30	21.430	22.564					24713	8	4.818	4.019	24785	8	3.036	9.364	24857	8	18.164	13.230
24552	10	22.974	22.180					24714	14	7.165	4.178	24786	14	4.118	9.532	24858*	42	18.762	13.895
24553*	56	22.994	22.650					24715	8	9.150	4.998	24787	8	5.428	9.014	24859	19	19.480	13.620
24554	16	0.214	23.050					24716	8	11.688	4.624	24788	10	6.588	9.206	24860	16	21.281	13.960
24555	24	2.696	23.716					24717	22	14.544	4.136	24789	8	10.812	9.900	24861	12	21.786	13.560
24556	32	4.474	23.852					24718	8	16.160	4.882	24790	8	11.292	9.683	24862*	46	21.924	13.922
24557	22	6.172	23.930					24719	14	17.729	4.942	24791*	37	12.822	9.022	24863	9	22.206	13.210
24558	32	6.332	23.444					24720	8	17.952	4.497	24792	8	13.820	9.996	24864	8	23.769	13.676
24559	15	6.381	23.017					24721	12	18.154	4.256	24793*	38	16.492	9.644	24865	11	24.976	13.718
24560	8	6.598	23.339					24722	8	21.748	4.704	24794	8	18.854	9.786	24866	24	3.608	14.052
24561	40	7.415	23.356					24723	8	21.824	4.490	24795	8	23.240	9.404	24867*	31	5.500	14.020
24562	22	7.538	23.054					24724	12	3.930	5.450	24796	8	23.718	9.496	24868	8	6.930	14.202
24563	23	7.814	23.336					24725*	25	5.326	5.764	24797	8	24.763	9.956	24869	8	7.422	14.982
24564	22	8.510	23.846					24726	8	5.444	5.209	24798	26	25.672	9.934	24870	9	8.048	14.008
24565	15	11.471	23.818					24727	9	6.363	5.540	24799	12	5.564	10.160	24871	16	9.802	14.240
24566	19	14.862	23.258					24728*	34	6.667	5.561	24800	9	7.178	10.826	24872	8	10.770	14.220
24567	17	15.342	23.364					24729	16	7.344	5.138	24801	8	8.342	10.332	24873*	28	15.596	14.072
24568	36	18.267	23.524					24730	8	7.647	5.915	24802	8	12.932	10.730	24874	8	16.054	14.051
24569	40	23.362	23.314					24731	26	7.898	5.108	24803	10	15.688	10.043	24875	8	20.478	14.325
24570	26	25.562	23.586					24732	8	9.642	5.295	24804	10	19.456	10.712	24876	8	20.708	14.823
24571	12	2.494	24.066					24733	13	9.900	5.128	24805	11	21.690	10.042	24877	27	20.764	14.954
24572	24	4.005	24.919					24734	8	12.454	5.256	24806	13	22.280	10.277	24878	16	21.304	14.444
24573*	36	5.792	24.407					24735	8	15.844	5.801	24807	8	23.402	10.479	24879	8	21.659	14.294
24574	24	7.221	24.944					24736	9	17.556	5.404	24808*	40	24.626	10.430	24880	15	22.154	14.370
24575*	42	7.314	24.295					24737	10	18.394	5.882	24809	8	25.278	10.817	24881	8	23.356	14.500
24576	11	10.488	24.924					24738	10	20.256	5.894	24810	27	0.582	11.552	24882	21	25.816	14.876
24577	10	13.502	24.175					24739*	29	22.374	5.230	24811	8	1.078	11.702	24883	9	0.338	15.188
24578	24	15.636	24.099					24740	13	23.720	5.854	24812	14	1.156	11.557	24884	8	1.387	15.482
24579*	56	18.964	24.704					24741	9	2.616	6.545	24813	26	1.864	11.792	24885*	24	2.120	15.646
24580	13	20.772	24.626					24742	8	3.234	6.664	24814	10	6.374	11.762	24886	9	2.892	15.618
24581	38	23.803	24.427					24743*	39	4.481	6.226	24815	8	7.036	11.301	24887	14	5.830	15.019
24582	14	24.268	24.516					24744	16	6.486	6.814	24816	10	10.503	11.684	24888	28		

24893	10	18.647	15.590	24965	10	22.750	19.096	25037	23	14.637	25.054	25085	17	13.381	2.992	25157	9	5.885	8.460
24894	8	20.262	15.268	24966	11	25.235	19.088	25038	8	14.732	25.235	25086	8	15.890	2.059	25158	11	10.234	8.042
24895	8	21.715	15.621	24967	9	25.288	19.168	25039	8	15.851	25.907	25087	18	18.588	2.556	25159*	35	12.249	8.554
24896	10	21.767	15.429	24968	8	25.484	19.316	25040	8	16.301	25.276	25088	12	20.156	2.634	25160	10	12.678	8.404
24897	8	22.220	15.320	24969	30	1.636	20.025	25041	8	16.702	25.725	25089	38	21.964	2.254	25161	9	14.120	8.976
24898*	28	22.988	15.955	24970	10	1.642	20.867	25042	8	16.980	25.518	25090	10	3.202	3.114	25162	11	14.218	8.287
24899	9	24.736	15.588	24971	31	2.328	20.832	25043	8	20.926	25.067	25091	27	9.852	3.658	25163	8	14.380	8.134
24900*	33	24.790	15.600	24972	8	7.220	20.253	25044	22	21.675	25.250	25092	8	14.418	3.654	25164	8	18.670	8.577
24901	8	24.912	15.594	24973*	38	7.842	20.200	25045	22	22.583	25.066	25093	26	18.577	3.825	25165	18	19.358	8.279
24902	8	25.709	15.541	24974*	18	8.554	20.022	25046	8	22.618	25.325	25094	8	20.694	3.024	25166	8	19.371	8.909
24903	8	5.334	16.416	24975	8	17.693	20.966	25047	16	22.713	25.354	25095	8	22.918	3.732	25167	10	19.758	8.214
24904	10	5.870	16.388	24976	8	18.280	20.824	25048	40	24.000	25.724	25096	28	8.608	4.834	25168*	45	23.716	8.828
24905	8	6.038	16.638	24977	8	22.382	20.078					25097	27	9.782	4.274	25169	19	23.878	8.350
24906	9	7.002	16.062	24978	27	25.485	20.640					25098*	32	10.032	4.400	25170	13	24.942	8.405
24907	8	7.459	16.258	24979*	30	2.814	21.800					25099	11	10.410	4.202	25171	39	25.642	8.224
24908	10	7.466	16.885	24980	13	8.919	21.950					25100*	24	11.500	4.748	25172	9	25.830	8.698
24909	8	9.978	16.890	24981*	40	9.530	21.065					25101	11	13.439	4.199	25173	8	0.615	9.326
24910*	60	14.074	16.764	24982*	28	10.710	21.384					25102	11	13.544	4.585	25174	8	2.138	9.859
24911	8	19.415	16.686	24983	22	13.518	21.224					25103	9	13.746	4.718	25175	22	3.054	9.821
24912	11	19.580	16.478	24984	8	14.979	21.513					25104	8	16.524	4.580	25176	11	5.532	9.467
24913	8	20.124	16.082	24985	25	15.586	21.322					25105	8	16.995	4.804	25177	8	8.818	9.192
24914	8	22.918	16.082	24986	23	19.158	21.956					25106	9	21.556	4.666	25178	8	10.204	9.624
24915	8	23.598	16.972	24987	21	21.463	21.149					25107	15	1.048	5.767	25179	28	10.300	9.068
24916	8	24.354	16.914	24988	8	22.140	21.029					25108	8	3.711	5.830	25180	9	10.548	9.400
24917	10	3.514	17.914	24989	8	22.800	21.346					25109	11	5.946	5.428	25181	11	12.238	9.621
24918*	17	5.319	17.981	24990	8	25.928	21.314					25110	20	7.285	5.698	25182	20	13.988	9.706
24919*	40	8.062	17.602	24991	8	0.764	22.463					25111	21	7.302	5.343	25183	8	18.093	9.792
24920*	34	8.504	17.938	24992	40	0.786	22.931					25112	8	8.157	5.299	25184	10	22.530	9.950
24921*	36	11.230	17.714	24993	25	0.898	22.240					25113	9	10.498	5.474	25185	29	22.918	9.138
24922*	25	11.612	17.330	24994	8	3.370	22.190					25114	8	10.912	5.459	25186*	42	2.012	10.334
24923	19	12.184	17.530	24995	31	15.308	22.932					25115	8	14.746	5.566	25187	10	2.580	10.989
24924	11	13.076	17.730	24996	8	15.953	22.524					25116	8	15.284	5.809	25188	8	2.670	10.713
24925	8	13.099	17.774	24997	8	17.904	22.923					25117	10	15.360	5.648	25189	8	2.713	10.944
24926	8	13.746	17.714	24998	13	19.206	22.284					25118	23	16.002	5.920	25190	8	3.680	10.325
24927	8	18.199	17.620	24999*	41	24.053	22.810					25119	8	18.428	5.872	25191	12	10.209	10.148
24928	8	18.754	17.152	25000	10	24.708	22.714					25120	8	19.018	5.222	25192	8	11.357	10.964
24929	8	19.020	17.884	25001	11	25.784	22.243					25121	30	21.502	5.254	25193	12	13.219	10.466
24930	8	19.116	17.274	25002	26	1.160	23.591					25122	8	23.823	5.135	25194	8	15.222	10.763
24931	30	19.594	17.072	25003	11	3.364	23.847					25123	34	0.586	6.736	25195	16	15.826	10.282
24932	8	20.022	17.202	25004	8	8.394	23.854					25124	23	5.794	6.984	25196	8	16.797	10.462
24933	14	20.843	17.129	25005	8	8.447	23.995					25125	8	6.216	6.452	25197	8	19.521	10.793
24934	11	21.614	17.394	25006	11	8.819	23.013					25126	8	6.350	6.430	25198	40	0.328	11.499
24935	9	22.404	17.781	25007	12	12.137	23.826					25127	8	6.938	6.732	25199	12	2.536	11.308
24936	8	0.200	18.920	25008	8	13.922	23.849					25128	12	7.514	6.130	25200	10	7.460	11.943
24937	24	1.169	18.720	25009	8	15.756	23.265					25129	10	7.722	6.816	25201	9	7.966	11.026
24938*	35	3.936	18.864	25010	8	17.660	23.972					25130	10	13.095	6.478	25202	9	1.254	12.054
24939	8	4.150	18.122	25011	9	21.600	23.781					25131	9	13.278	6.870	25203*	31	1.688	12.268
24940	8	5.474	18.638	25012*	40	23.807	23.998					25132	10	13.698	6.976	25204	11	2.132	12.234
24941*	19	7.896	18.217	25013	26	24.100	23.316					25133	13	14.334	6.888	25205*	52	4.843	12.399
24942*	27	7.920	18.441	25014	24	1.610	24.704					25134	8	15.192	6.483	25206	9	4.913	12.557
24943	10	10.424	18.660	25015	8	2.081	24.791					25135*	45	15.777	6.334	25207	8	9.089	12.668
24944	9	15.826	18.560	25016	8	4.223	24.934					25136	8	16.844	6.358	25208	8	11.956	12.369
24945	8	16.456	18.810	25017	8	5.220	24.060					25137	9	19.053	6.752	25209	8	12.411	12.120
24946	9	17.086	18.110	25018	8	8.024	24.630					25138	15	21.265	6.530	25210	8	17.276	12.140
24947	9	17.920	18.430	25019	14	11.074	24.805					25139	8	21.386	6.466	25211	10	17.925	12.643
24948	12	18.364	18.855	25020	8	11.494	24.610					25140	17	23.350	6.080	25212	12	18.502	12.087
24949	15	19.396	18.794	25021	8	15.925	24.904					25141	20	24.535	6.686	25213	10	19.656	12.292
24950*	40	21.032	18.770	25022	8	16.878	24.951					25142	8	0.204	7.952	25214	11	2.407	13.616
24951	12	22.161	18.360	25023	8	19.126	24.478					25143	18	1.902	7.124	25215	12	6.971	13.384
24952	8	22.979	18.096	25024	11	19.587	24.564					25144	8	2.247	7.666	25216	9	8.628	13.188
24953	8	24.716	18.774	25025	8	24.959	24.086					25145	10	2.380	7.700	25217	8	10.076	13.636
24954	8	4.714	19.911	25026	18	0.123	25.371					25146	10	2.464	7.010	25218	8	10.302	13.223
24955	10	6.042	19.250	25027	15	2.276	25.701					25147	8	8.058	7.347	25219	8	13.300	13.490
24956	8	9.936	19.108	25028	8	2.915	25.638					25148*	27	9.191	7.495	25220	8	14.612	13.007
24957	8	10.880	19.774	25029	8	7.320	25.288					25149	13	11.150	7.788	25221	13	17.585	13.424
24958	14	13.460	19.582	25030	8	7.886	25.014					25150	8	13.666	7.650	25222	8	24.734	13.201
24959	9	13.834	19.970	25031	8	8.544	25.220					25151	9	15.234	7.036	25223	20	3.264	14.762
24960	8	14.697	19.603	25032	8	9.370	25.513					25152*	36	18.796	7.741	25224	24	4.252	14.288
24961	16	19.725	19.832	25033	12	11.234	25.478					25153	23	18.986	7.738	25225	8	5.210	14.248
24962	8</																		

25229	17	18.514	14.764	25301	8	0.337	21.274	<div>R.A. 8^h 48^m</div> <div>Plate 462 ; 1915 Feb. 8.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—01770 +00467 —0974</div> <div>D E F</div> <div>—00466 —01793 +0775</div> <div>Mag.=15.9—1.10√<i>d</i></div>	25456	12	18.220	6.804	25528	10	17.710	17.825
25230	8	20.208	14.528	25302	34	3.674	21.676		25457	9	20.614	6.317	25529*	62	19.540	17.856
25231	8	23.791	14.185	25303	8	5.814	21.484		25458	10	20.887	6.455	25530	19	23.958	17.116
25232	8	25.880	14.838	25304	8	8.650	21.876		25459	8	22.202	6.584	25531	11	3.366	18.426
25233	40	0.450	15.882	25305	8	9.081	21.855		25460	8	1.054	7.866	25532*	22	4.288	18.525
25234	10	2.193	15.486	25306	8	10.889	21.829		25461	8	5.096	7.485	25533	9	5.836	18.364
25235*	34	2.244	15.504	25307	14	11.771	21.794		25462	12	10.511	7.756	25534	9	6.605	18.695
25236	12	8.058	15.656	25308*	33	12.488	21.188		25463	24	13.110	7.056	25535	8	6.860	18.597
25237	8	11.502	15.822	25309*	47	1.604	22.721		25464	22	17.328	7.744	25536	14	8.272	18.605
25238	20	17.839	15.152	25310	10	2.260	22.614		25465	18	24.098	7.783	25537	10	8.960	18.530
25239	8	22.248	15.168	25311	13	3.330	22.131	25466	16	1.406	8.536	25538*	36	17.676	18.473	
25240	14	25.358	15.018	25312*	36	3.845	22.407	25467	15	2.470	8.580	25539	8	22.676	18.541	
25241	11	1.074	16.886	25313	10	6.230	22.755	25468*	34	3.168	8.392	25540	11	24.746	18.334	
25242	8	3.534	16.749	25314	8	12.767	22.430	25469	8	12.914	8.966	25541	8	0.659	19.344	
25243	10	4.689	16.989	25315	8	13.455	22.152	25470	9	15.454	8.159	25542	35	4.720	19.256	
25244	10	5.016	16.202	25316	8	13.854	22.216	25471	16	17.903	8.149	25543	8	15.850	19.484	
25245	12	7.353	16.046	25317*	51	17.532	22.006	25472	11	19.447	8.730	25544*	51	1.023	20.632	
25246	8	7.660	16.547	25318	9	19.816	22.752	25473*	46	24.626	8.639	25545	11	6.794	20.625	
25247	8	8.666	16.309	25319	10	25.825	22.287	25474	26	0.454	9.340	25546	14	6.949	20.404	
25248	10	11.273	16.084	25320*	46	1.376	23.912	25475*	48	1.246	9.016	25547*	31	20.978	20.032	
25249	10	13.977	16.441	25321	31	1.661	23.227	25476	8	3.923	9.455	25548	22	0.453	21.197	
25250	8	19.444	16.248	25322	8	2.531	23.982	25477	8	4.684	9.138	25549	10	13.143	21.703	
25251	8	19.574	16.287	25323	9	3.805	23.714	25478	9	19.030	9.064	25550	8	13.850	21.710	
25252*	36	21.172	16.724	25324	8	4.594	23.417	25479	13	24.002	9.300	25551	9	16.946	21.966	
25253	18	21.174	16.054	25325	10	7.088	23.816	25480	12	0.075	10.155	25552	15	22.801	21.678	
25254	11	4.352	17.236	25326	8	9.973	23.124	25481*	34	4.717	10.128	25553	16	23.166	21.516	
25255	11	8.397	17.726	25327	33	10.948	23.026	25482*	21	6.072	10.414	25554	8	0.612	22.827	
25256	10	18.218	17.148	25328	22	10.960	23.253	25483	8	16.200	10.824	25555	16	3.513	22.456	
25257*	60	18.906	17.296	25329	8	11.230	23.444	25484	14	17.191	10.826	25556*	44	5.377	22.780	
25258	12	20.874	17.902	25330	24	14.488	23.574	25485	8	18.617	10.323	25557	12	10.677	22.014	
25259	29	25.028	17.346	25331	12	16.904	23.061	25486	13	20.368	10.298	25558	9	11.859	22.476	
25260	10	0.468	18.019	25332	33	19.044	23.352	25487	13	20.434	10.317	25559	11	21.622	22.695	
25261	8	2.216	18.673	25333	12	19.244	23.845	25488	10	24.745	10.153	25560	8	22.454	22.930	
25262	12	2.740	18.982	25334	12	20.456	23.076	25489*	25	4.708	11.022	25561	8	23.054	22.740	
25263	8	3.053	18.946	25335	12	23.033	23.713	25490	15	8.190	11.349	25562	12	0.736	23.913	
25264	10	5.868	18.114	25336	10	4.044	24.496	25491	17	13.982	11.366	25563	8	1.157	23.164	
25265	10	8.342	18.400	25337	8	4.080	24.273	25492*	74	20.062	11.116	25564	10	3.206	23.376	
25266	15	12.354	18.891	25338	10	9.035	24.994	25493*	53	20.180	11.300	25565*	50	5.120	23.006	
25267	8	15.562	18.484	25339	8	12.944	24.402	25494	8	0.528	12.396	25566	27	6.185	23.480	
25268	12	16.725	18.339	25340	8	15.910	24.983	25495*	29	7.680	12.900	25567	9	7.060	23.076	
25269	10	17.481	18.794	25341	8	16.801	24.958	25496*	19	8.386	12.556	25568	8	14.675	23.106	
25270	10	18.812	18.376	25342	18	17.570	24.082	25497	15	9.945	12.056	25569	9	15.685	23.894	
25271	8	18.818	18.032	25343	9	23.330	24.682	25498*	29	12.480	12.440	25570*	34	19.476	23.466	
25272	23	19.877	18.107	25344*	37	24.040	24.926	25499*	27	13.604	12.711	25571	13	20.095	23.848	
25273*	37	20.400	18.107	25345	23	0.169	25.000	25500	16	14.483	12.533	25572	8	22.698	23.242	
25274	8	25.596	18.191	25346	8	0.204	25.260	25501	11	19.651	12.737	25573	10	1.050	24.872	
25275	8	25.723	18.251	25347	26	0.303	25.282	25502	8	19.858	12.818	25574	22	5.317	24.982	
25276	10	0.254	19.023	25348	45	1.594	25.636	25503	9	20.381	12.893	25575	26	5.508	24.122	
25277	8	2.796	19.066	25349	60	3.964	25.695	25504	8	0.131	12.681	25576	14	13.260	24.258	
25278	17	3.928	19.384	25350*	21	7.512	25.062	25505	8	2.134	13.650	25577	8	13.527	24.712	
25279	8	5.292	19.142	25351	10	12.644	25.266	25506	8	2.310	13.384	25578	8	14.187	24.118	
25280	18	10.724	19.572	25352	8	20.327	25.521	25507	22	6.667	13.550	25579	12	22.820	24.302	
25281	15	11.858	19.998	25353	16	21.770	25.820	25508	19	10.510	13.670	25580*	36	1.756	25.108	
25282	8	12.326	19.596					25509	8	15.749	13.055	25581	11	6.740	25.321	
25283	12	13.222	19.573					25510	11	18.926	13.402	25582	14	12.031	25.849	
25284	8	14.834	19.055					25511	8	22.977	13.226	25583	9	13.490	25.375	
25285	8	15.366	19.715					25512	8	1.385	14.374	25584	10	14.299	25.278	
25286	10	16.732	19.514					25513	8	9.986	14.212	25585	20	17.337	25.424	
25287	8	17.791	19.188					25514	10	14.734	14.094	25586	8	18.413	25.144	
25288	8	21.134	19.701					25515	15	2.960	15.190	25587	28	19.917	25.818	
25289	13	21.494	19.606					25516	11	4.090	15.264	25588	33	23.730	25.947	
25290	8	23.008	19.146					25517	1							

R.A. 8 ^h 56 ^m				25656	12	13.818	8.850	25728	10	23.492	18.535	25806	13	8.538	0.394	25878	9	14.012	7.038								
Plate 489; 1915 Feb. 14. Provisional Constants. A B C -01748 +00414 -1045 D E F -00431 -01788 +0476 Mag.=15.9-1.10√d				25657	14	14.080	8.117	25729	8	2.849	19.222	25807	10	8.562	0.312	25879	8	14.090	7.610								
				25658	12	14.878	8.561	25730	10	9.119	19.786	25808	11	9.934	0.956	25880	9	18.407	7.104								
				25659	14	15.006	8.103	25731	12	16.074	19.707	25809	24	13.700	0.342	25881	11	19.460	7.766								
				25660	8	18.986	8.038	25732	15	16.540	19.893	25810	8	22.078	0.440	25882*	26	20.008	7.341								
				25661	15	1.526	9.374	25733	12	22.392	19.499	25811	8	25.808	0.926	25883	8	21.624	7.908								
				25662	22	4.646	9.642	25734	8	5.339	20.591	25812	8	1.662	1.720	25884	11	23.548	7.363								
				25663	22	15.294	9.647	25735	14	10.606	20.934	25813	11	11.143	1.390	25885	12	23.799	7.026								
				25664	10	22.434	9.703	25736	20	13.980	20.690	25814	8	13.934	1.930	25886	12	24.522	7.586								
				25665	15	25.136	9.685	25737	11	21.412	20.836	25815	19	16.928	1.254	25887	18	24.524	7.460								
				25666	9	2.280	10.219	25738	11	22.480	20.364	25816	8	20.217	1.632	25888	8	1.639	8.366								
				25667	19	3.760	10.541	25739	10	23.840	20.914	25817	14	21.808	1.850	25889	8	2.296	8.278								
				25668	8	6.536	10.733	25740	15	0.454	21.762	25818	8	22.274	1.959	25890	8	5.622	8.534								
				25669	10	11.338	10.551	25741	14	0.820	21.598	25819	8	23.746	1.722	25891	10	6.734	8.010								
				25670*	20	12.398	10.872	25742*	47	4.550	21.680	25820	11	24.048	1.864	25892	13	12.776	8.806								
				25671	11	12.672	10.090	25743	23	5.056	21.456	25821	12	25.468	1.832	25893	8	13.723	8.913								
				25672	8	21.521	10.031	25744	14	6.005	21.890	25822	10	7.668	2.202	25894	12	14.246	8.454								
				25673	11	21.746	10.799	25745	15	15.420	21.892	25823	11	8.678	2.842	25895	16	15.179	8.338								
				25674	23	24.754	10.444	25746	13	22.464	21.652	25824	8	13.226	2.288	25896	17	18.043	8.558								
				25675	14	25.063	10.034	25747	15	23.475	21.564	25825	12	14.973	2.676	25897	8	18.376	8.499								
				25676	8	25.150	10.798	25748	8	0.719	22.818	25826	24	18.362	2.261	25898	8	19.152	8.420								
				25677	8	12.316	11.844	25749*	100	10.246	22.406	25827	18	22.056	2.654	25899	9	20.737	8.798								
				25678	9	16.121	11.118	25750	13	10.601	22.732	25828	26	24.726	2.246	25900	12	21.300	8.688								
				25679	23	17.299	11.136	25751	8	20.938	22.378	25829	8	2.554	3.266	25901	19	23.059	8.404								
				25680	16	19.686	11.498	25752	8	7.498	23.374	25830	8	16.823	3.884	25902	11	0.031	9.754								
				25681	8	22.345	11.141	25753*	28	12.479	23.348	25831	11	17.291	3.306	25903	12	2.734	9.710								
				25682	8	23.257	11.142	25754	17	12.974	23.458	25832	8	21.276	3.848	25904	9	9.630	9.493								
				25683	13	25.738	11.009	25755*	60	14.421	23.960	25833	21	21.365	3.215	25905*	22	11.278	9.022								
				25684	12	25.890	11.460	25756	52	25.017	23.639	25834	28	21.732	3.354	25906	8	16.086	9.792								
				25685	23	10.620	12.900	25757	12	0.505	24.391	25835	8	21.914	3.169	25907	8	16.208	9.510								
				25686	8	10.938	12.818	25758	9	2.387	24.378	25836	8	23.728	3.794	25908	8	19.683	9.175								
				25687*	44	13.240	12.235	25759	8	4.014	24.065	25837	14	24.628	3.687	25909	19	21.638	9.922								
				25688	12	19.244	12.745	25760	8	4.995	24.183	25838	8	25.404	3.774	25910	10	22.150	9.027								
				25689	19	21.661	12.760	25761	17	5.474	24.037	25839	23	0.330	4.482	25911	8	25.728	9.094								
				25690	12	24.052	12.618	25762	8	5.653	24.191	25840	18	0.640	4.500	25912	10	25.865	9.568								
				25691	8	0.543	13.310	25763	9	9.226	24.592	25841	17	5.935	4.158	25913	8	2.044	10.824								
				25692*	21	16.928	13.340	25764	11	14.361	24.191	25842	17	6.984	4.480	25914	20	2.356	10.471								
				25693	8	20.040	13.008	25765	21	20.221	24.584	25843	10	13.368	4.520	25915	13	2.663	10.063								
				25694	10	24.081	13.438	25766	11	20.410	24.508	25844*	24	14.030	4.352	25916	10	2.757	10.824								
				25695	13	24.124	13.035	25767	16	21.222	24.516	25845	8	18.727	4.206	25917	8	4.172	10.670								
				25696	14	4.028	14.164	25768	33	2.175	25.704	25846	8	20.674	4.552	25918*	54	7.986	10.384								
				25697	16	5.016	14.331	25769	8	9.227	25.166	25847	8	23.508	4.387	25919	10	12.714	10.590								
				25698	15	6.439	14.786	25770	9	11.016	25.096	25848	14	25.712	4.600	25920	17	12.715	10.536								
				25699*	27	16.028	14.018	25771	11	15.296	25.165	25849	8	3.316	5.359	25921	10	13.500	10.011								
				25700	21	16.135	14.832	25772	15	16.888	25.252	25850*	22	4.635	5.616	25922*	27	13.925	10.598								
				25701	8	20.523	14.785	25773	20	23.564	25.912	25851*	32	6.114	5.143	25923	20	15.110	10.128								
				25702*	45	22.370	14.489	25774	13	25.692	25.256	25852	11	6.452	5.480	25924	10	17.286	10.529								
				25703	35	25.762	14.423					25853	13	6.626	5.960	25925	10	18.906	10.882								
				25704	20	17.330	15.132					25854	9	9.860	5.697	25926	8	20.066	10.484								
				25705	12	20.166	15.606	R.A. 9 ^h 4 ^m Plate 494; 1915 Feb. 15. Provisional Constants. A B C -01758 +00159 -0162 D E F -00149 -01780 -0168 Mag.=15.0-1.10√d												25855	11	9.980	5.431	25927	10	20.200	10.473
				25706	13	22.761	15.382													25856	8	12.322	5.600	25928	14	21.404	10.860
				25707	12	10.130	16.786	25857	13	17.108	5.646	25929	8	22.566	10.329												
				25708	13	13.228	16.884	25858*	43	18.860	5.638	25930*	29	24.832	10.578												
				25709	10	17.496	16.213	25859	14	20.408	5.568	25931	9	0.864	11.180												
				25710	8	20.127	16.840	25860	11	22.626	5.972	25932	11	3.348	11.029												
				25711*	20	20.186	16.909	25861	8	25.920	5.728	25933	12	3.504	11.480												
				25712	14	1.564	17.188	25862	15	0.251	6.389	25934	11	7.410	11.074												
				25713	8	11.262	17.474	25863	18	3.844	6.650	25935	13	7.552	11.390												
				25714	19	15.316	17.044	25864	8	5.863	6.558	25936	8	10.666	11.860												
				25715	8	19.665	17.905	25865*	25	8.251	6.360	25937	20	11.572	11.515												
				25716*	37	20.097	17.782	25866	13	11.330	6.012	25938*	120	14.054	11.835												
				25717*	33	20.732	17.480	25867*	30	11.350	6.415	25939	8	18.036	11.388												
				25718	11	21.876	17.800	25868	15	11.891	6.680	25940	10	18.224	11.674												
				25719	16	23.935	17.200	25869*	16	12.019	6.188	25941	8	22.777	11.881												
				25720	10	25.978	17.770	25870	10	14.159	6.808	25942	21	24.293	11.885												
				25721	8	0.197	18.658	25871	8	15.322	6.634	25943	8	0.881	12.598												
				25722	12	2.363	18.402	25872	16	20.800	6.990	25944	12	1.674	12.650												
				25723*	76	5.128	18.736	25873	10	21.477	6.172	25945	9	3.870	12.401												
				25724	8	6.682	18.446	25874	11	22.316	6.546	25946	9	4.194	12.761												
				25725	13	15.022	18.174	25875	8	22.544	6.188	25947	8	111													

25950	9	21.724	12.506	26022	8	21.693	18.497	26094	8	17.583	25.492	26141	22	20.955	1.876	26213	24	4.124	6.919
25951	12	22.244	12.640	26023	8	0.068	19.543	26095	12	18.536	25.444	26142*	40	21.192	1.382	26214	14	6.819	6.768
25952	8	0.803	13.736	26024	10	20.788	19.095	26096	14	19.266	25.324	26143	44	2.414	2.181	26215	14	6.827	6.407
25953	10	1.706	13.472	26025	10	22.316	19.056	26097*	32	19.540	25.412	26144	8	2.446	2.793	26216	8	7.550	6.876
25954	11	1.745	13.066	26026	8	24.054	19.330	26098	8	21.122	25.515	26145	20	5.366	2.595	26217	36	9.838	6.600
25955	8	2.600	13.320	26027	9	0.163	20.412	26099	13	23.697	25.845	26146	15	6.344	2.580	26218	12	9.926	6.641
25956	12	20.261	13.322	26028	10	1.528	20.947					26147	36	7.292	2.463	26219	16	10.249	6.138
25957	10	20.348	13.028	26029	8	7.033	20.754					26148	8	8.953	2.069	26220	14	10.705	6.215
25958	8	21.190	13.220	26030	20	11.234	20.776					26149	20	10.286	2.621	26221	8	12.471	6.212
25959	21	21.525	13.826	26031	8	12.706	20.510					26150	16	13.954	2.685	26222	18	12.857	6.806
25960	8	22.616	13.169	26032	12	13.767	20.506					26151	12	15.538	2.645	26223	8	13.198	6.154
25961	8	23.306	13.225	26033	21	14.140	20.111					26152	12	15.911	2.574	26224	12	15.066	6.684
25962	12	23.806	13.372	26034	10	15.523	20.516					26153	24	19.738	2.749	26225	12	16.728	6.045
25963	31	0.002	14.537	26035*	32	15.958	20.222					26154	8	20.443	2.362	26226	14	17.026	6.068
25964	8	3.368	14.701	26036	8	19.934	20.256					26155	10	21.024	2.144	26227	18	22.888	6.925
25965	20	3.394	14.442	26037	11	0.156	21.702					26156	18	21.205	2.254	26228	30	22.980	6.862
25966*	27	5.332	14.333	26038	12	1.165	21.494					26157	24	21.480	2.683	26229	8	0.024	7.053
25967	8	12.502	14.312	26039	10	7.406	21.624					26158	8	21.693	2.683	26230	12	0.324	7.046
25968	8	18.688	14.658	26040	13	11.358	21.336					26159	22	22.332	2.033	26231	20	1.301	7.276
25969	8	19.204	14.157	26041	9	12.146	21.448					26160	18	25.784	2.604	26232	24	2.270	7.485
25970	10	20.236	14.042	26042	19	14.918	21.647					26161	8	0.910	3.681	26233	37	2.269	7.362
25971	10	21.119	14.164	26043	9	16.320	21.278					26162	12	1.441	3.730	26234	8	4.104	7.652
25972	8	21.316	14.887	26044	8	16.450	21.304					26163	32	2.330	3.618	26235	16	7.968	7.875
25973	10	21.802	14.559	26045	8	17.758	21.790					26164	14	3.100	3.689	26236	17	8.191	7.504
25974	9	22.729	14.754	26046	10	19.526	21.560					26165	12	6.295	3.482	26237	36	8.726	7.764
25975	8	23.785	14.193	26047	8	21.330	21.626					26166	10	8.572	3.707	26238*	56	8.918	7.284
25976	8	24.006	14.056	26048	8	21.664	21.480					26167	8	8.614	3.500	26239	14	12.108	7.242
25977	9	24.724	14.052	26049	8	22.786	21.316					26168	10	8.734	3.481	26240	9	14.594	7.055
25978	11	0.404	15.432	26050	12	5.220	22.550					26169	8	8.788	3.518	26241	8	16.756	7.264
25979	8	4.104	15.424	26051	15	5.595	22.422					26170	8	8.844	3.947	26242	8	16.810	7.985
25980	9	6.352	15.695	26052	14	5.924	22.270					26171	18	9.186	3.862	26243	8	18.672	7.608
25981	8	7.574	15.124	26053	19	7.690	22.450					26172	16	10.914	3.030	26244	8	22.425	7.172
25982	8	8.455	15.428	26054	8	11.512	22.707					26173*	40	13.192	3.769	26245	16	23.766	7.558
25983	10	12.578	15.968	26055	10	14.230	22.421					26174	56	13.817	3.011	26246	36	0.824	8.314
25984*	28	16.324	15.600	26056	8	14.516	22.348					26175	8	15.135	3.044	26247	8	2.693	8.510
25985	8	23.175	15.083	26057	10	18.545	22.431					26176	18	18.637	3.526	26248	10	3.486	8.966
25986	11	25.102	15.329	26058	18	18.671	22.702					26177	8	19.433	3.196	26249	9	7.462	8.952
25987	9	3.937	16.420	26059	8	21.961	22.186					26178	8	21.734	3.732	26250	14	8.145	8.056
25988	11	4.642	16.544	26060	10	24.482	22.682					26179	32	23.125	3.533	26251*	40	8.432	8.950
25989	10	6.634	16.453	26061	11	25.890	22.040					26180	18	25.758	3.193	26252	11	11.734	8.066
25990	8	7.122	16.956	26062*	33	2.720	23.665					26181	12	1.225	4.324	26253	8	12.420	8.662
25991*	20	9.990	16.292	26063*	37	5.877	23.754					26182	36	3.415	4.508	26254	28	13.395	8.736
25992	12	11.074	16.738	26064*	29	6.883	23.157					26183	10	3.924	4.066	26255	14	13.675	8.899
25993*	21	14.808	16.406	26065	10	7.498	23.843					26184	8	4.756	4.526	26256	8	13.721	8.172
25994	22	15.446	16.566	26066	14	14.569	23.849					26185	10	5.114	4.546	26257	40	15.893	8.802
25995	9	19.250	16.060	26067	22	17.623	23.709					26186	20	5.908	4.480	26258	8	16.442	8.886
25996	20	21.957	16.810	26068	8	18.463	23.422					26187	8	7.944	4.214	26259	12	17.880	8.352
25997	8	22.270	16.567	26069	16	18.654	23.523					26188	36	8.719	4.184	26260*	38	21.040	8.536
25998	8	23.836	16.580	26070	8	19.167	23.180					26189	8	9.610	4.304	26261	28	22.235	8.601
25999*	16	24.965	16.458	26071	8	19.324	23.129					26190	12	16.492	4.746	26262	16	25.716	8.082
26000	11	1.591	17.236	26072	10	19.460	23.610					26191	18	18.542	4.398	26263	18	3.625	9.435
26001	8	3.633	17.190	26073	8	24.169	23.274					26192	26	20.274	4.286	26264*	38	3.792	9.989
26002	14	8.260	17.950	26074*	28	24.780	23.858					26193	17	20.536	4.314	26265	8	5.114	9.884
26003	8	14.796	17.157	26075	8	10.510	24.162					26194	36	20.656	4.224	26266	10	7.463	9.056
26004	14	16.142	17.500	26076	8	10.957	24.875					26195	16	25.564	4.423	26267	11	8.074	9.108
26005	17	16.314	17.195	26077	12	11.458	24.040					26196	24	0.372	5.905	26268	13	9.322	9.088
26006	8	17.882	17.769	26078*	38	14.273	24.717					26197	12	3.636	5.622	26269	9	13.476	9.948
26007	10	18.440	17.870	26079	11	17.065	24.648					26198	10	5.316	5.158	26270	17	15.710	9.001
26008	10	19.410	17.552	26080	9	18.056	24.824					26199	12	6.324	5.287	26271*	50	22.136	9.782
26009	8	19.716	17.530	26081	11	20.462	24.888					26200	18	6.823	5.258	26272	11	0.362	10.232
26010	8	21.525	17.084	26082	15	1.296	25.949					26201	8	9.747	5.776	26273*	40	2.606	10.452
26011	10	22.800	17.694	26083*	20	3.422	25.280					26202	8	10.254	5.394	26274	8	4.170	10.275
26012	10	24.624	17.168	26084	8	8.566	25.914					26203	12	10.446	5.936	26275	11	4.324	10.305
26013	34	25.176	17.364	26085	17	9.894	25.504					26204	12	10.943	5.796	26276	12	5.934	10.066
26014	10	1.160	18.570	26086	8	10.022	25.260					26205	10	11.464	5.371	26277	39	6.488	10.155
26015	8	5.582	18.170	26087	16	11.724	25.380					26206	12	11.715	5.833	26278	15	8.535	10.088
26016	13	8.112	18.763	26088	8	11.806	25.534					26207	8	13.958	5.523	26279	12	9.844	10.158
26017	8	11.547	18.724	26089*	23	12.719	25.240					26208	8	16.704	5.123	26280	36	11.700	10.787
26018	22	13.667	18.124	26090	8	15.224	25.496					26209	8	22.658	5.946	26281*	40	15.392	10.891
26019	17	15.772	18.090	26091	9	15.271	25.216					26210	24	0.066	6.480	26282	8		

26285*	84	17.178	10.532	26357	13	6.070	14.292	26429	16	15.472	18.585	26501*	52	17.124	22.192	R.A. 9^h 20^m			
26286*	36	18.599	10.034	26358	20	7.577	14.327	26430	12	18.024	18.819	26502	8	17.747	22.422	Plate 495 ; 1915 Feb. 15.			
26287	8	19.488	10.319	26359	8	9.888	14.854	26431	10	18.251	18.742	26503	23	18.634	22.707	<i>Provisional Constants.</i>			
26288	20	21.200	10.264	26360	8	10.746	14.552	26432	11	19.088	18.292	26504	14	19.434	22.059	A B C			
26289	8	23.794	10.976	26361	8	13.688	14.275	26433	31	20.822	18.753	26505	14	21.358	22.895	— .01770 + .00628 — .0653			
26290*	42	24.303	10.314	26362	16	14.094	14.251	26434	38	22.009	18.486	26506	26	22.670	22.007	D E F			
26291	10	0.592	11.765	26363	8	14.970	14.226	26435	21	22.032	18.676	26507	8	0.292	23.068	— .00610 — .01808 + .1324			
26292	32	2.090	11.752	26364	36	15.014	14.443	26436	8	22.834	18.262	26508	10	2.101	23.053	<i>Mag.</i> = 15.2 — 1.10√ <i>d</i>			
26293	8	3.422	11.474	26365	17	17.944	14.046	26437*	56	23.095	18.674	26509*	54	2.714	23.625				
26294	13	4.799	11.148	26366	12	19.068	14.264	26438	28	25.150	18.727	26510	11	3.709	23.703				
26295	8	8.108	11.373	26367	13	19.766	14.459	26439	12	25.666	18.402	26511	11	4.776	23.464				
26296	10	9.750	11.703	26368	8	22.354	14.032	26440	16	1.942	19.144	26512	16	8.858	23.269				
26297	15	10.244	11.055	26369	8	22.858	14.152	26441	8	3.097	19.244	26513	8	10.766	23.780				
26298	10	10.706	11.825	26370	8	24.576	14.781	26442	38	5.044	19.396	26514	16	10.861	23.589				
26299*	34	12.034	11.066	26371	16	25.166	14.032	26443	8	7.158	19.404	26515	15	11.656	23.124				
26300	28	14.288	11.098	26372	8	0.836	15.939	26444	8	7.848	19.616	26516*	40	12.142	23.314				
26301	12	14.314	11.787	26373	19	2.935	15.159	26445	36	8.167	19.460	26517	8	12.294	23.634				
26302*	46	16.701	11.450	26374	16	3.894	15.956	26446	12	8.381	19.426	26518	14	12.726	23.750				
26303	34	20.285	11.844	26375	40	6.493	15.014	26447	8	9.676	19.178	26519	12	13.507	23.125				
26304	20	22.164	11.996	26376*	64	6.682	15.642	26448	16	9.775	19.704	26520	13	13.872	23.883				
26305	16	23.928	11.633	26377	10	8.124	15.485	26449	14	12.434	19.430	26521	19	14.449	23.112				
26306	8	25.216	11.524	26378	10	8.164	15.750	26450	17	15.434	19.006	26522	16	15.256	23.934				
26307	24	0.067	12.526	26379	8	11.738	15.666	26451	24	18.758	19.094	26523	13	16.790	23.432				
26308	8	0.564	12.657	26380	15	12.228	15.038	26452	9	18.955	19.572	26524	10	17.046	23.922				
26309	8	3.372	12.304	26381	20	12.274	15.019	26453	8	21.630	19.195	26525	14	18.571	23.992				
26310	10	4.094	12.829	26382	8	12.511	15.813	26454	10	23.433	19.076	26526	22	18.632	23.528				
26311	10	5.739	12.708	26383	20	12.994	15.901	26455	8	3.096	20.746	26527	39	19.242	23.267				
26312	14	6.894	12.956	26384	10	13.540	15.766	26456	8	3.166	20.373	26528	18	20.319	23.185				
26313	8	7.284	12.842	26385	30	13.607	15.628	26457	8	4.611	20.254	26529	16	21.646	23.250				
26314	8	9.030	12.398	26386	12	14.970	15.505	26458	20	4.920	20.410	26530	8	23.313	23.734				
26315	17	10.636	12.288	26387	8	15.844	15.402	26459	8	6.878	20.186	26531	9	5.914	24.666				
26316	10	11.996	12.354	26388	14	16.904	15.690	26460	14	6.896	20.436	26532	10	6.016	24.058				
26317	8	12.206	12.596	26389	8	17.052	15.486	26461	8	7.854	20.638	26533	10	6.340	24.176				
26318	8	13.505	12.170	26390	8	21.735	15.314	26462	17	8.664	20.048	26534	12	7.624	24.976				
26319	10	16.136	12.490	26391	14	0.140	16.424	26463	12	9.576	20.646	26535	30	8.200	24.545				
26320	20	16.615	12.294	26392	8	0.872	16.173	26464	36	10.855	20.196	26536	20	9.896	24.243				
26321	8	17.312	12.665	26393	12	1.696	16.417	26465	36	13.875	20.708	26537*	80	12.470	24.738				
26322	10	19.854	12.515	26394	19	2.483	16.993	26466	18	16.916	20.020	26538*	36	17.634	24.839				
26323	8	22.390	12.861	26395*	32	2.813	16.283	26467	8	19.654	20.436	26539	10	19.776	24.118				
26324	11	23.088	12.987	26396	19	3.833	16.284	26468	8	22.280	20.790	26540	8	19.914	24.796				
26325	8	23.134	12.345	26397	13	9.570	16.914	26469	26	25.932	20.420	26541	16	23.036	24.223				
26326	8	23.382	12.066	26398	8	10.377	16.273	26470	10	2.336	21.124	26542	12	24.379	24.515				
26327	17	0.444	13.046	26399	8	10.656	16.882	26471	22	3.796	21.808	26543	30	25.856	24.540				
26328	12	1.126	13.094	26400	12	17.492	16.994	26472	12	5.264	21.369	26544	34	1.668	25.618				
26329	21	1.626	13.235	26401	8	19.966	16.462	26473	12	6.986	21.472	26545	12	7.809	25.284				
26330	12	1.836	13.908	26402	8	24.610	16.025	26474	34	9.989	21.784	26546	18	9.700	25.946				
26331	8	1.954	13.850	26403	18	0.681	17.535	26475	8	10.806	21.185	26547	40	11.484	25.608				
26332	16	2.545	13.895	26404	8	0.800	17.854	26476	26	11.280	21.917	26548	17	13.540	25.936				
26333*	40	4.518	13.935	26405*	58	3.030	17.176	26477	14	11.342	21.480	26549	8	13.614	25.686				
26334	15	4.715	13.824	26406	8	3.218	17.800	26478	16	11.408	21.165	26550	16	14.358	25.332				
26335	10	5.059	13.082	26407	18	7.002	17.228	26479	8	14.947	21.341	26551	12	14.393	25.684				
26336	16	6.345	13.806	26408	14	7.045	17.080	26480	8	17.899	21.056	26552	10	14.533	25.210				
26337	12	7.416	13.327	26409	22	8.904	17.054	26481	22	20.356	21.525	26553	8	15.042	25.162				
26338	14	8.524	13.414	26410	18	10.874	17.378	26482	8	20.526	21.484	26554	8	15.402	25.846				
26339	8	9.542	13.277	26411	36	15.119	17.375	26483	8	21.122	21.367	26555	56	15.788	25.850				
26340*	40	10.060	13.148	26412	14	18.498	17.916	26484	10	22.644	21.394	26556	11	16.284	25.878				
26341	13	14.155	13.158	26413	15	18.982	17.250	26485	8	24.023	21.177	26557	12	16.310	25.336				
26342	16	16.576	13.430	26414	11	20.374	17.392	26486	12	24.814	21.806	26558	24	16.604	25.322				
26343	8	17.349	13.562	26415	14	21.938	17.006	26487	19	2.408	22.462	26559	8	19.549	25.128				
26344	12	17.662	13.830	26416	32	24.032	17.484	26488	8	5.419	22.011	26560	20	19.602	25.594				
26345	12	17.961	13.114	26417	17	25.950	17.062	26489	8	6.362	22.737	26561	22	20.684	25.492				
26346	9	21.524	13.526	26418	26	0.214	18.893	26490	8	6.498	22.862	26562	14	21.462	25.509				
26347	8	21.814	13.326	26419	12	4.962	18.924	26491	24	6.966	22.956	26563*	52	23.305	25.228				
26348*	58	22.496	13.908	26420	14	6.982	18.700	26492	14	7.299	22.765	26564	18	23.351	25.914				
26349	18	22.870	13.941	26421	8	7.894	18.964	26493	16	8.259	22.567								
26350	18	25.400	13.932	26422	12	9.765	18.332	26494	18	9.515	2								

26656	11	24.216	5.374	26728	8	5.954	12.333	26800*	40	18.994	18.412	R.A. 9 ^h 28 ^m Plate 598; 1916 Feb. 29. Provisional Constants. A B C -02570 +00298 +.2012 D E F -00302 -02575 -2490 Mag. = 17.3 - 1.05√d	26956	38	21.730	2.236
26657	28	25.226	5.280	26729	8	6.685	12.497	26801	10	19.710	18.324		26957	12	22.850	2.594
26658	32	25.664	5.594	26730	9	10.886	12.987	26802	9	24.561	18.038		26958	13	24.736	2.311
26659	15	3.749	6.545	26731	9	13.570	12.852	26803	33	0.688	19.100		26959	15	25.894	2.006
26660	13	6.626	6.555	26732	12	13.647	12.642	26804	10	2.764	19.124		26960	30	0.960	3.245
26661*	49	6.638	6.576	26733	8	13.662	12.145	26805*	24	3.953	19.018		26961	18	1.502	3.217
26662	8	8.298	6.700	26734	9	17.588	12.312	26806	13	5.346	19.195		26962	13	1.578	3.697
26663	8	11.560	6.318	26735	8	18.034	12.628	26807	9	6.256	19.516		26963	15	2.328	3.386
26664	13	13.936	6.174	26736	13	22.424	12.442	26808	8	9.238	19.838		26964	15	3.095	3.650
26665	9	15.447	6.168	26737	8	23.358	12.279	26809	10	11.677	19.455		26965	46	3.254	3.181
26666	9	15.602	6.611	26738*	42	24.302	12.155	26810	11	20.523	19.622	26966	8	9.717	3.429	
26667	12	16.498	6.626	26739	12	25.573	12.543	26811	12	20.580	19.451	26967	36	10.746	3.882	
26668	9	18.106	6.006	26740	8	0.604	13.368	26812	8	21.014	19.262	26968	8	15.606	3.740	
26669	9	18.430	6.650	26741	8	2.325	13.663	26813	16	23.010	19.300	26969	8	16.846	3.153	
26670	11	19.136	6.912	26742	12	5.104	13.705	26814	10	25.523	19.120	26970	13	18.758	3.071	
26671	10	0.315	7.262	26743	8	6.913	13.234	26815	12	3.576	20.820	26971	12	19.610	3.649	
26672	13	0.404	7.198	26744	10	7.622	13.019	26816	11	8.350	20.920	26972	16	19.926	3.934	
26673	8	1.204	7.890	26745	14	8.196	13.998	26817	18	11.032	20.360	26973	8	19.954	3.356	
26674	9	3.664	7.844	26746*	23	11.870	13.100	26818	11	11.672	20.374	26974	13	21.998	3.612	
26675	22	5.412	7.251	26747	10	13.430	13.601	26819	8	21.461	20.185	26975	10	23.806	3.211	
26676	10	7.942	7.984	26748	12	14.560	13.525	26820	14	22.536	20.826	26976	8	23.926	3.049	
26677*	24	8.181	7.353	26749	10	15.674	13.200	26821	8	25.600	20.326	26977	16	25.926	3.317	
26678	8	9.024	7.362	26750	10	17.016	13.043	26822	12	7.858	21.000	26978	33	0.422	4.358	
26679	8	14.224	7.386	26751	9	20.396	13.478	26823	8	9.220	21.590	26979*	52	2.938	4.996	
26680	9	15.437	7.137	26752	12	24.450	13.356	26824	10	9.988	21.847	26980	15	4.584	4.726	
26681*	52	16.346	7.090	26753	10	24.806	13.705	26825	10	13.674	21.505	26981	14	4.627	4.620	
26682	9	18.303	7.774	26754	37	0.015	14.306	26826	13	13.683	21.739	26982	11	7.548	4.006	
26683	12	19.862	7.586	26755	9	0.396	14.334	26827*	56	18.914	21.304	26983	8	7.778	4.163	
26684*	31	24.727	7.736	26756	8	2.712	14.396	26828	8	20.161	21.518	26984	36	9.332	4.716	
26685	11	25.431	7.628	26757	8	2.948	14.292	26829*	29	20.540	21.107	26985*	51	12.952	4.108	
26686	9	3.184	8.392	26758	8	4.164	14.536	26830	11	25.462	21.524	26986	10	14.862	4.616	
26687	10	6.665	8.939	26759	8	8.346	14.637	26831	12	0.312	22.467	26987	20	14.995	4.814	
26688*	22	6.866	8.058	26760	10	9.098	14.828	26832	8	2.467	22.232	26988	17	16.214	4.684	
26689	8	7.110	8.248	26761	10	12.634	14.273	26833	10	5.584	22.704	26989	9	16.362	4.488	
26690	8	8.386	8.435	26762	12	13.538	14.638	26834	8	11.542	22.600	26990	8	16.422	4.259	
26691	10	8.406	8.280	26763	10	14.854	14.890	26835	10	12.956	22.317	26991	27	21.234	4.478	
26692	10	10.446	8.024	26764*	24	18.586	14.798	26836	16	15.702	22.990	26992	32	22.014	4.042	
26693	8	11.206	8.504	26765	19	10.642	15.619	26837	9	15.829	22.999	26993	20	0.556	5.334	
26694	14	11.584	8.043	26766	10	14.854	15.149	26838	10	15.856	22.953	26994	12	1.442	5.252	
26695	8	11.605	8.930	26767	15	16.355	15.675	26839	11	18.328	22.304	26995	22	1.940	5.098	
26696*	45	13.380	8.812	26768	12	20.272	15.868	26840	11	24.463	22.455	26996	10	3.184	5.374	
26697	8	15.068	8.407	26769	9	24.132	15.478	26841	8	8.070	23.850	26997*	68	3.374	5.304	
26698*	18	15.628	8.972	26770	12	24.937	15.956	26842	12	8.092	23.966	26998	26	4.272	5.807	
26699	8	16.962	8.806	26771	13	25.490	15.428	26843*	21	10.750	23.432	26999	10	6.046	5.021	
26700	8	18.403	8.676	26772	8	25.568	15.894	26844	11	19.689	23.456	27000	22	7.280	5.864	
26701	11	19.840	8.924	26773	9	7.273	16.074	26845	13	22.256	23.308	27001	12	10.626	5.618	
26702	13	20.214	8.528	26774	11	9.115	16.032	26846	8	24.376	23.306	27002	19	12.030	5.907	
26703*	30	21.594	8.040	26775	8	11.103	16.068	26847	8	24.958	23.557	27003	15	12.574	5.692	
26704	13	23.423	8.608	26776	8	14.859	16.290	26848	10	3.559	24.972	27004	17	15.104	5.684	
26705	8	25.356	8.354	26777	11	22.101	16.832	26849	9	8.212	24.800	27005	14	16.226	5.102	
26706	8	4.566	9.507	26778	12	23.942	16.864	26850*	26	9.153	24.630	27006	40	17.970	5.791	
26707	17	7.338	9.910	26779	12	24.100	16.034	26851	9	12.190	24.274	27007	40	20.715	5.806	
26708	9	7.884	9.400	26780	13	1.614	17.887	26852	10	12.956	24.931	27008	8	21.176	5.214	
26709	11	9.884	9.159	26781	9	3.544	17.435	26853	11	15.029	24.259	27009	14	1.820	6.894	
26710*	22	19.357	9.970	26782	10	11.784	17.935	26854	9	16.244	24.491	27010	14	3.876	6.398	
26711	9	22.752	9.134	26783	9	13.451	17.831	26855	10	20.858	24.928	27011	17	4.342	6.976	
26712	8	25.322	9.950	26784	8	15.160	17.786	26856	10	23.821	24.154	27012	10	4.556	6.898	
26713*	22	1.786	10.658	26785	10	15.739	17.802	26857	9	25.821	24.846	27013	8	6.301	6.778	
26714	16	6.486	10.900	26786	8	18.234	17.572	26858*	24	0.994	25.694	27014	11	7.371	6.426	
26715	8	11.722	10.500	26787	11	18.258	17.870	26859	9	5.896	25.712	27015	8	7.420	6.696	
26716	12	16.046	10.489	26788	14	18.332	17.258	26860	9	7.776	25.114	27016	22	9.188		

27028*	57	2.459	7.439	27100	14	24.064	10.123	27172	9	0.185	14.604	27244	8	4.345	17.568	27316	18	9.550	21.776
27029	10	2.662	7.760	27101	38	24.185	10.774	27173	11	0.275	14.248	27245	11	5.010	17.173	27317	36	10.880	21.668
27030	19	3.164	7.325	27102	10	25.048	10.122	27174	15	0.568	14.205	27246	11	5.846	17.365	27318	32	11.464	21.502
27031	13	4.588	7.436	27103	28	25.834	10.835	27175	14	3.444	14.264	27247	10	6.044	17.458	27319	10	13.358	21.209
27032	8	5.719	7.034	27104	24	0.064	11.235	27176*	58	4.716	14.236	27248	9	11.026	17.476	27320	13	13.705	21.468
27033	16	8.944	7.304	27105	16	1.136	11.955	27177*	48	5.556	14.934	27249	14	11.802	17.135	27321	18	14.274	21.819
27034	8	9.700	7.246	27106*	72	2.066	11.826	27178	11	6.066	14.348	27250	26	11.995	17.974	27322	8	14.460	21.473
27035	9	10.042	7.809	27107	37	3.154	11.412	27179	10	6.584	14.930	27251	18	13.739	17.916	27323	34	14.534	21.670
27036	53	11.036	7.780	27108	8	4.777	11.494	27180	12	6.726	14.606	27252*	72	14.559	17.536	27324	10	20.090	21.364
27037	14	13.236	7.263	27109	16	6.054	11.433	27181	8	9.647	14.134	27253	48	16.540	17.884	27325	21	20.218	21.456
27038	10	14.034	7.613	27110	10	8.206	11.484	27182	19	10.442	14.610	27254	40	22.135	17.551	27326	11	21.234	21.373
27039*	37	17.722	7.066	27111	26	8.254	11.833	27183	12	11.498	14.183	27255	13	22.886	17.818	27327	8	24.574	21.110
27040	12	22.266	7.949	27112	8	9.300	11.826	27184	9	15.638	14.478	27256	40	0.845	18.926	27328	32	0.129	22.910
27041	8	23.564	7.283	27113	16	9.850	11.792	27185	16	16.542	14.975	27257	16	3.339	18.734	27329	12	2.235	22.894
27042	20	24.146	7.914	27114	8	10.826	11.745	27186	13	16.817	14.474	27258	11	3.595	18.872	27330	24	2.314	22.046
27043	12	25.141	7.478	27115	17	11.396	11.012	27187	13	21.003	14.868	27259	11	4.037	18.164	27331	8	3.362	22.422
27044	35	25.282	7.422	27116	8	11.464	11.721	27188	16	21.214	14.580	27260	18	5.504	18.276	27332	12	5.576	22.114
27045	13	25.767	7.894	27117	8	13.208	11.617	27189	15	22.050	14.240	27261	13	5.762	18.607	27333	8	8.150	22.397
27046	16	0.512	8.844	27118	32	13.579	11.503	27190	11	22.856	14.448	27262	16	6.500	18.504	27334	10	8.616	22.404
27047	22	1.174	8.316	27119	15	15.946	11.640	27191*	70	22.906	14.620	27263	14	7.713	18.236	27335	8	9.909	22.216
27048	14	3.096	8.048	27120	12	16.786	11.656	27192	8	23.522	14.294	27264	16	9.642	18.844	27336	17	11.167	22.342
27049	15	5.599	8.654	27121	8	17.202	11.844	27193	32	25.053	14.890	27265	17	11.474	18.597	27337	28	12.983	22.271
27050	12	6.974	8.980	27122	8	19.250	11.112	27194	26	1.904	15.677	27266	18	11.508	18.894	27338	8	13.236	22.204
27051	36	8.486	8.063	27123	8	20.339	11.391	27195	19	1.930	15.126	27267	16	13.608	18.737	27339	15	14.368	22.095
27052	8	10.858	8.747	27124	12	20.548	11.044	27196	9	2.032	15.134	27268	23	13.964	18.476	27340	13	18.045	22.224
27053	10	11.008	8.436	27125	10	21.642	11.515	27197	24	2.733	15.596	27269	18	15.184	18.094	27341	18	18.881	22.247
27054	22	11.286	8.457	27126	9	21.786	11.256	27198	26	3.278	15.066	27270*	52	16.606	18.808	27342	10	23.470	22.598
27055	8	11.400	8.066	27127	15	22.296	11.264	27199	15	3.358	15.528	27271*	50	24.078	18.787	27343	28	1.687	23.736
27056	9	12.444	8.518	27128	24	23.313	11.256	27200	16	4.060	15.260	27272	16	3.424	19.924	27344	15	2.815	23.134
27057	36	12.488	8.556	27129	13	24.286	11.956	27201	15	5.365	15.641	27273	10	7.305	19.515	27345	10	4.188	23.136
27058	16	13.420	8.920	27130	11	25.290	11.335	27202	8	5.372	15.234	27274	15	7.306	19.868	27346	8	4.297	23.644
27059	26	14.521	8.990	27131	32	0.212	12.126	27203	8	6.446	15.157	27275	13	8.088	19.956	27347	14	5.326	23.598
27060	8	15.350	8.800	27132	28	3.339	12.204	27204	17	7.850	15.668	27276	8	10.254	19.625	27348	18	5.352	23.602
27061	8	17.798	8.007	27133	9	6.520	12.008	27205	16	8.445	15.650	27277	15	10.298	19.694	27349	8	8.330	23.688
27062	12	18.006	8.704	27134	13	7.676	12.736	27206	9	9.027	15.016	27278	32	10.441	19.600	27350	15	9.485	23.718
27063	21	21.156	8.794	27135	14	9.285	12.027	27207	8	9.107	15.202	27279	15	11.136	19.184	27351*	120	12.090	23.616
27064	12	21.854	8.264	27136*	60	9.490	12.136	27208	8	9.536	15.778	27280	19	14.276	19.984	27352	10	15.468	23.532
27065	32	22.858	8.802	27137	13	11.054	12.204	27209	15	9.960	15.800	27281	11	15.315	19.745	27353	12	15.998	23.370
27066	15	1.392	9.427	27138	12	11.635	12.480	27210	36	14.234	15.868	27282	34	15.710	19.278	27354	17	16.650	23.264
27067	16	3.072	9.634	27139	13	15.295	12.082	27211	17	14.870	15.799	27283*	54	17.138	19.272	27355*	46	18.987	23.408
27068	28	3.910	9.694	27140	8	16.233	12.702	27212	17	16.452	15.496	27284	10	17.470	19.556	27356	39	20.892	23.395
27069	15	7.412	9.742	27141	18	16.930	12.855	27213*	78	17.750	15.981	27285	32	17.714	19.037	27357	8	21.942	23.332
27070	11	7.633	9.106	27142	16	18.096	12.878	27214	18	20.100	15.800	27286	13	19.804	19.240	27358	17	22.050	23.596
27071*	57	10.441	9.646	27143	38	19.050	12.257	27215	12	21.509	15.314	27287	15	20.408	19.374	27359	22	25.308	23.914
27072	16	11.106	9.263	27144	12	20.524	12.004	27216	36	21.736	15.233	27288	15	20.786	19.608	27360	36	2.616	24.753
27073	13	11.294	9.034	27145	10	23.868	12.088	27217	36	22.519	15.200	27289	12	22.521	19.916	27361	15	3.682	24.407
27074	16	17.934	9.928	27146	11	24.118	12.772	27218	17	1.714	16.795	27290	38	24.409	19.165	27362*	58	5.553	24.863
27075	8	18.970	9.787	27147	26	24.840	12.784	27219	24	1.753	16.504	27291	16	25.300	19.554	27363	10	5.664	24.617
27076	14	20.194	9.912	27148	11	25.526	12.352	27220	8	1.864	16.844	27292	30	0.386	20.445	27364	11	7.033	24.399
27077	18	20.294	9.092	27149	60	25.985	12.266	27221	13	3.486	16.670	27293	12	2.637	20.762	27365	22	8.764	24.482
27078	12	21.193	9.041	27150	24	2.232	13.018	27222	16	4.756	16.500	27294	8	2.964	20.876	27366	14	9.402	24.596
27079	16	23.926	9.516	27151	18	2.586	13.364	27223	13	5.184	16.032	27295*	52	4.736	20.765	27367	13	11.138	24.254
27080	12	2.210	10.438	27152	8	4.472	13.488	27224	54	5.844	16.494	27296	12	5.315	20.122	27368	12	11.646	24.246
27081	16	3.490	10.310	27153	14	5.106	13.859	27225	17	6.086	16.268	27297	36	6.278	20.552	27369*	66	11.990	24.317
27082	24	4.585	10.748	27154	36	5.616	13.548	27226	14	6.365	16.490	27298	16	7.492	20.802	27370	16	13.386	24.406
27083	24	6.166	10.394	27155	11	6.080	13.016	27227	28	8.674	16.324	27299	40	7.724	20.003	27371*	42	15.539	24.708
27084	14	6.912	10.660	27156	16	6.160	13.503	27228	15	10.566	16.130	27300	30	8.064	20.564	27372	8	15.985	24.274
27085	16	9.576	10.485	27157	34	6.715	13.774	27229	14	11.077	16.056	27301	12	8.526	20.136	27373	16	17.084	24.228
27086	9	11.314	10.074	27158	15	6.850	13.944	27230	10	12.018	16.822	27302	32	11.135	20.546	27374	8	17.361	24.684
27087	14	12.404	10.236	27159	8	7.341	13.857	27231	8	13.974	16.633	27303	10	14.374	20.481	27375	16	18.190	24.030
27088	14	12.537	10.707	27160	15	7.402	13.268	27232	14	14.912	16.622	27304	19	16.206	20.456	27376	14	25.198	24.136
27089	8	12.822	10.786	27161	13	8.536	13.456	27233	12	16.074	16.032	27305	8	16.634	20.086	27377	8	0.194	25.662
27090*	52	14.462	10.365	27162	16	11.646	13.256</												

27388	12	13.656	25.284	27441	12	3.560	2.269	27513	9	7.964	5.974	27585	8	14.837	8.012	27657	8	7.244	11.288
27389	10	14.614	25.756	27442	20	6.314	2.886	27514	8	8.570	5.492	27586	36	15.745	8.290	27658	20	9.224	11.978
27390	20	14.627	25.736	27443	22	7.460	2.591	27515	8	9.056	5.982	27587	10	17.144	8.912	27659	31	10.104	11.406
27391	58	20.487	25.394	27444*	80	8.144	2.949	27516	12	9.685	5.898	27588	26	18.786	8.666	27660	8	11.572	11.899
27392	104	21.000	25.682	27445	11	8.605	2.547	27517	8	10.682	5.614	27589	9	19.208	8.000	27661	8	12.450	11.487
27393	46	21.164	25.677	27446	10	9.225	2.037	27518	8	11.577	5.756	27590	12	23.143	8.683	27662	10	13.700	11.176
				27447	8	9.516	2.783	27519	10	12.264	5.372	27591	10	24.808	8.056	27663	8	17.195	11.713
				27448	10	9.531	2.586	27520	8	12.436	5.508	27592	28	25.047	8.886	27664	8	23.332	11.794
				27449	10	10.275	2.537	27521	10	12.689	5.682	27593	21	0.592	9.092	27665	18	23.520	11.158
				27450	12	12.804	2.387	27522*	32	14.117	5.914	27594	8	0.785	9.509	27666	10	24.078	11.822
				27451	8	13.717	2.616	27523*	40	15.350	5.936	27595	11	1.666	9.794	27667	9	24.505	11.647
				27452	12	14.892	2.319	27524	20	15.730	5.636	27596	8	1.741	9.264	27668	10	1.635	12.366
				27453	10	14.989	2.952	27525	10	18.498	5.656	27597	8	3.172	9.493	27669	10	2.054	12.234
				27454	18	15.184	2.821	27526	10	18.609	5.412	27598	12	7.340	9.352	27670	8	2.296	12.415
				27455*	45	15.623	2.793	27527	12	19.492	5.982	27599*	42	8.122	9.490	27671	10	3.294	12.614
				27456	10	15.966	2.693	27528	14	19.580	5.770	27600	12	8.539	9.546	27672*	60	3.746	12.522
				27457	17	16.198	2.636	27529	11	20.242	5.223	27601	8	9.916	9.550	27673	8	4.477	12.224
				27458	10	20.446	2.675	27530	16	21.098	5.724	27602	14	10.186	9.390	27674	15	5.701	12.349
				27459	8	1.483	3.496	27531	8	21.118	5.906	27603	8	10.673	9.740	27675	10	6.096	12.637
				27460	12	3.602	3.577	27532	10	22.704	5.495	27604	12	10.924	9.574	27676	31	6.764	12.650
				27461	10	3.871	3.649	27533	13	23.727	5.635	27605	11	13.984	9.188	27677	8	7.055	12.645
				27462	8	5.123	3.890	27534	8	1.840	6.166	27606	10	14.315	9.762	27678	8	8.456	12.927
				27463	11	5.446	3.669	27535	8	2.072	6.562	27607	8	17.890	9.565	27679	10	9.640	12.962
				27464	9	6.487	3.851	27536	10	2.399	6.325	27608	9	18.875	9.043	27680	8	9.687	12.047
				27465	33	6.990	3.699	27537	8	3.835	6.928	27609	8	19.078	9.616	27681	8	10.690	12.166
				27466	34	8.715	3.047	27538	21	4.483	6.590	27610	10	19.446	9.112	27682	16	11.192	12.579
				27467	12	12.466	3.509	27539	10	6.286	6.694	27611	9	19.600	9.934	27683	8	11.444	12.730
				27468	8	13.076	3.016	27540	8	9.840	6.013	27612	10	20.958	9.850	27684	20	12.006	12.206
				27469	8	13.165	3.345	27541	22	11.275	6.876	27613	10	22.875	9.936	27685	8	12.272	12.852
				27470	8	13.184	3.021	27542	9	11.315	6.430	27614	10	24.056	9.316	27686*	57	12.754	12.970
				27471	27	13.680	3.016	27543	16	16.022	6.228	27615	8	24.287	9.891	27687	8	13.224	12.379
				27472	8	14.465	3.881	27544*	41	16.584	6.442	27616	10	25.946	9.135	27688	15	13.251	12.134
				27473	10	14.944	3.376	27545	16	19.346	6.098	27617	15	1.056	10.288	27689	29	14.472	12.439
				27474	26	16.917	3.596	27546	8	19.502	6.366	27618	11	1.594	10.444	27690*	63	15.184	12.946
				27475	10	17.161	3.543	27547	8	20.042	6.169	27619	12	1.807	10.399	27691	20	17.960	12.715
				27476	26	18.441	3.303	27548	10	20.468	6.738	27620	8	2.794	10.390	27692	8	18.917	12.188
				27477	26	20.534	3.334	27549	10	22.722	6.624	27621	29	4.625	10.625	27693	8	24.497	12.086
				27478	8	23.312	3.295	27550	12	23.276	6.600	27622	8	4.874	10.932	27694	8	25.714	12.900
				27479	27	23.555	3.341	27551	10	24.676	6.971	27623	8	5.728	10.796	27695	8	0.489	13.394
				27480	12	24.338	3.669	27552	8	0.890	7.652	27624	16	6.220	10.527	27696	10	1.893	13.050
				27481*	63	24.463	3.797	27553	8	1.280	7.564	27625	12	6.420	10.140	27697	20	2.614	13.052
				27482*	40	24.750	3.445	27554	9	1.656	7.735	27626	15	6.535	10.629	27698	10	3.008	13.560
				27483	8	1.816	4.954	27555	10	2.862	7.745	27627	13	6.940	10.545	27699	9	5.630	13.868
				27484	8	2.176	4.564	27556	22	2.998	7.686	27628	8	7.150	10.465	27700	10	6.794	13.397
				27485	8	2.396	4.688	27557	8	3.379	7.448	27629	11	7.402	10.034	27701	8	8.110	13.060
				27486	23	3.710	4.792	27558	21	4.126	7.200	27630	20	7.882	10.250	27702	8	10.432	13.215
				27487	20	4.726	4.904	27559	8	6.025	7.502	27631	8	8.086	10.930	27703	8	10.463	13.952
				27488	38	5.258	4.416	27560	17	6.095	7.004	27632*	60	9.179	10.978	27704	8	11.500	13.375
				27489	8	5.716	4.584	27561	10	6.559	7.876	27633	25	10.888	10.666	27705	12	11.705	13.045
				27490	10	5.791	4.474	27562	9	7.752	7.516	27634	9	11.436	10.075	27706*	35	12.704	13.324
				27491	8	5.964	4.741	27563	8	8.781	7.476	27635	10	14.586	10.167	27707	8	13.966	13.322
				27492	18	8.612	4.735	27564	8	9.198	7.208	27636	14	14.640	10.814	27708	14	17.486	13.308
				27493	8	9.238	4.801	27565	10	10.482	7.713	27637	13	14.646	10.942	27709	8	17.805	13.679
				27494	8	9.400	4.184	27566	8	11.896	7.251	27638	10	15.091	10.436	27710	9	18.090	13.317
				27495	10	10.134	4.465	27567	8	17.382	7.773	27639	10	17.078	10.562	27711	20	18.231	13.746
				27496	13	11.150	4.694	27568	8	20.295	7.638	27640	8	18.154	10.410	27712	10	19.504	13.716
				27497	9	15.646	4.656	27569	8	21.399	7.834	27641	10	22.934	10.919	27713	8	21.254	13.056
				27498	8	15.704	4.249	27570	9	21.669	7.100	27642	8	25.310	10.792	27714	15	21.696	13.396
				27499*	58	16.052	4.930	27571	11	22.425	7.598	27643	20	0.029	11.164	27715	33	23.151	13.638
				27500	27	17.257	4.989	27572	24	24.074	7.662	27644	12	0.054	11.558	27716	22	23.744	13.273
				27501	31	18.556	4.110	27573	21	24.147	7.534	27645	19	1.070	11.539	27717	10	0.645	14.736
				27502	12	18.956	4.821	27574	14	1.868	8.190	27646	24	1.935	11.046	27718	60	0.694	14.906
				27503	8	19.144	4.644	27575	11	3.492	8.154	27647	8	2.132	11.092	27719	8	1.305	14.576
				27504	10	20.226	4.435	27576	8	3.848	8.651	27648	9	3.050	11.602	27720	8	3.325	14.736
				27505	9	22.898	4.368	27577	10	7.235	8.189	27649	20	3.586	11.094	27721	28	4.162	14.673
				27506	10	23.275	4.286	27578	8	7.334	8.584	27650	8	3.899	11.370	27722	20	5.322	14.034
				27507	9	23.574	4.493	27579	8	8.745	8.336	27651	10	6.096	11.306	27723	18	5.493	14.592
				27508	12	24.323	4.236	27580	8	8.775	8.076	27652	12	6.298	11.603	27724*	40	5.676	14.720
				27509	8	3.595	5.142	27581	10	9.476	8.299	27653	22	6.404	11.029	27725	8	6.698	14.350
				27510	10	3.926	5.944	27582	8	10.122	8.856	27654	33	6.721	11.504	27726	8	6.750	14.415
				27511	8	5.654													

27729	15	9.556	14.480	27801	8	6.946	17.252	27873	24	23.868	19.287	27945	12	23.804	22.658	R.A. 9 ^h 44 ^m Plate 522; 1915 March 17. Provisional Constants. <div>A B C -01773 +00888 -0944 D E F -00897 -01786 +0266 Mag.=16.1-1.10√<i>d</i></div>
27730	8	9.640	14.032	27802	10	8.214	17.035	27874	10	25.852	19.784	27946	18	3.998	23.334	
27731	10	11.317	14.834	27803	8	9.026	17.778	27875	10	0.370	20.206	27947	10	4.756	23.867	
27732	8	12.315	14.878	27804	24	9.192	17.880	27876	10	1.822	20.698	27948	8	5.677	23.173	
27733	9	12.805	14.675	27805	10	9.644	17.864	27877	11	5.998	20.502	27949	8	6.616	23.035	
27734	8	13.375	14.473	27806	10	12.148	17.732	27878	14	8.330	20.238	27950	8	8.311	23.614	
27735	16	14.380	14.912	27807	18	14.037	17.990	27879	10	8.835	20.425	27951	8	9.274	23.603	
27736	10	15.104	14.762	27808	15	14.362	17.446	27880	20	9.540	20.606	27952	10	9.794	23.871	
27737	15	15.144	14.310	27809	8	15.615	17.926	27881	9	9.668	20.900	27953	9	12.514	23.913	
27738	10	15.555	14.984	27810	8	15.796	17.644	27882	31	9.704	20.025	27954	22	12.744	23.786	
27739	18	16.380	14.852	27811	8	18.239	17.354	27883	10	11.230	20.346	27955	18	12.965	23.836	
27740	8	17.788	14.104	27812	8	20.976	17.934	27884	8	14.038	20.894	27956	13	16.164	23.830	
27741	8	17.864	14.882	27813	10	21.328	17.278	27885	10	15.734	20.054	27957	8	16.390	23.168	
27742*	40	18.728	14.922	27814	8	22.217	17.678	27886	8	15.835	20.238	27958	12	17.365	23.301	
27743	18	18.952	14.146	27815	10	22.386	17.888	27887	8	18.821	20.803	27959	8	17.430	23.608	
27744	8	19.086	14.926	27816	10	23.960	17.369	27888	8	19.214	20.614	27960	19	18.532	23.790	
27745	20	19.110	14.040	27817	10	0.712	18.106	27889	10	21.105	20.842	27961	8	18.892	23.388	
27746	10	19.141	14.270	27818	8	4.046	18.676	27890	8	21.214	20.864	27962	8	18.965	23.242	
27747	9	24.790	14.192	27819	10	4.663	18.845	27891	8	21.872	20.704	27963	11	19.674	23.014	
27748	27	0.316	15.491	27820	16	5.690	18.803	27892	9	22.224	20.241	27964	16	20.726	23.624	
27749	20	2.845	15.156	27821	15	6.055	18.938	27893	10	22.414	20.615	27965	12	21.386	23.666	
27750	14	3.919	15.685	27822*	60	6.321	18.864	27894	26	22.986	20.650	27966	18	22.292	23.948	
27751	10	4.656	15.975	27823	20	8.198	18.472	27895	10	25.465	20.404	27967	10	23.402	23.952	
27752	9	5.620	15.038	27824	9	9.645	18.760	27896	9	25.928	20.877	27968	15	24.800	23.446	
27753	20	5.932	15.084	27825	12	9.845	18.830	27897	10	2.432	21.381	27969	12	25.304	23.792	
27754	8	6.215	15.934	27826*	40	10.670	18.264	27898	12	3.266	21.248	27970	10	3.091	24.396	
27755*	31	6.387	15.170	27827	11	11.128	18.426	27899	11	4.129	21.622	27971	13	3.198	24.174	
27756	8	7.428	15.330	27828	8	12.086	18.350	27900	9	4.348	21.093	27972	9	5.131	24.183	
27757	25	9.096	15.202	27829	8	12.101	18.412	27901	22	5.045	21.107	27973	13	5.638	24.294	
27758	14	9.882	15.813	27830	8	12.510	18.939	27902	8	5.734	21.155	27974	8	8.034	24.844	
27759	8	10.144	15.352	27831	8	12.935	18.955	27903	8	5.976	21.139	27975	8	8.196	24.118	
27760	12	10.320	15.496	27832	21	16.564	18.768	27904	20	6.354	21.467	27976	32	8.204	24.050	
27761	8	10.885	15.493	27833	15	17.168	18.159	27905	8	6.803	21.823	27977	32	8.804	24.560	
27762	8	11.264	15.378	27834	22	17.785	18.516	27906	8	6.911	21.636	27978	8	12.678	24.336	
27763	10	11.446	15.390	27835	10	18.062	18.184	27907	24	7.156	21.606	27979	14	14.944	24.938	
27764	12	17.228	15.274	27836	8	18.228	18.412	27908	12	7.490	21.324	27980	9	16.630	24.004	
27765	11	17.875	15.450	27837	9	19.485	18.321	27909	12	8.442	21.958	27981	27	18.175	24.350	
27766	9	23.154	15.496	27838	10	19.716	18.834	27910	8	9.750	21.522	27982	8	20.645	24.956	
27767	8	0.940	16.842	27839	9	22.162	18.070	27911	10	10.352	21.975	27983	9	20.744	24.383	
27768	8	1.734	16.704	27840	8	22.428	18.580	27912	14	11.780	21.418	27984	8	21.817	24.516	
27769	22	2.619	16.528	27841	12	22.800	18.088	27913	20	12.530	21.962	27985	8	24.103	24.644	
27770	11	2.828	16.665	27842	12	24.655	18.874	27914	17	12.729	21.361	27986*	60	24.386	24.225	
27771	8	3.082	16.616	27843	22	24.746	18.031	27915	10	12.860	21.021	27987	12	24.576	24.296	
27772	8	5.956	16.434	27844*	40	1.910	19.064	27916	8	13.894	21.085	27988	10	5.435	25.830	
27773	10	6.894	16.373	27845	28	2.246	19.435	27917	12	13.930	21.642	27989	8	9.300	25.416	
27774	18	7.206	16.942	27846	12	3.146	19.814	27918	10	15.500	21.970	27990	12	10.275	25.774	
27775	10	8.178	16.754	27847	16	3.884	19.319	27919	8	16.927	21.920	27991	50	10.577	25.501	
27776	10	8.750	16.536	27848	8	4.083	19.297	27920	9	17.598	21.660	27992	22	11.655	25.116	
27777	8	9.334	16.085	27849	12	4.546	19.712	27921	8	18.378	21.644	27993	8	13.768	25.856	
27778	8	12.239	16.934	27850*	70	5.548	19.181	27922	8	19.132	21.256	27994	8	14.936	25.192	
27779	8	12.648	16.675	27851	9	6.200	19.412	27923	10	21.365	21.364	27995	8	14.952	25.602	
27780	20	15.330	16.963	27852	8	6.879	19.915	27924	16	23.778	21.096	27996	8	15.064	25.237	
27781	11	16.326	16.477	27853	8	6.924	19.365	27925	10	24.288	21.884	27997	8	15.532	25.464	
27782	8	16.493	16.609	27854	8	6.941	19.584	27926	12	24.705	21.974	27998	10	15.590	25.933	
27783	10	17.200	16.102	27855	11	7.858	19.916	27927	8	0.926	22.874	27999	12	16.535	25.315	
27784*	46	17.665	16.398	27856	9	8.386	19.865	27928	8	1.346	22.876	28000	20	16.730	25.975	
27785	15	17.745	16.705	27857	8	8.622	19.124	27929	9	1.826	22.274	28001	8	17.134	25.417	
27786	22	17.956	16.555	27858	8	8.697	19.410	27930	8	8.660	22.381	28002	18	17.750	25.566	
27787	26	18.919	16.574	27859	8	10.739	19.870									

28106	10	8.174	7.600	28178	10	2.050	16.804	28250	12	3.030	25.333	28339	14	25.542	1.843	28411	10	20.356	5.798
28107	8	9.198	7.366	28179	11	3.666	16.990	28251	9	4.012	25.659	28340	8	0.200	2.057	28412	17	20.420	5.203
28108	22	9.759	7.480	28180	10	5.317	16.850	28252	49	4.503	25.988	28341	10	4.603	2.695	28413	12	20.770	5.093
28109	8	10.040	7.318	28181	10	6.837	16.428	28253	9	10.578	25.072	28342	10	6.603	2.617	28414	24	23.880	5.832
28110	18	12.163	7.353	28182	11	17.043	16.828	28254	16	15.300	25.341	28343	13	6.796	2.534	28415	12	1.674	6.285
28111	9	17.164	7.130	28183	9	20.270	16.264	28255	8	16.868	25.708	28344*	47	7.044	2.201	28416	10	4.313	6.647
28112	9	22.522	7.904	28184	10	5.450	17.846	28256	10	17.241	25.922	28345	8	10.202	2.081	28417	18	4.464	6.946
28113	30	23.176	7.492	28185	8	8.517	17.435	28257	8	23.024	25.061	28346	9	10.628	2.256	28418	10	4.742	6.283
28114	15	23.270	7.986	28186	29	12.167	17.790					28347*	48	13.820	2.094	28419	12	6.004	6.535
28115	8	0.584	8.878	28187	17	16.612	17.172					28348	19	14.595	2.393	28420	13	7.345	6.926
28116	8	6.632	8.807	28188	11	18.347	17.580					28349	10	17.170	2.881	28421	31	8.330	6.686
28117	23	6.937	8.046	28189	10	23.100	17.458					28350	12	19.326	2.182	28422	16	8.628	6.880
28118	12	8.232	8.240	28190	10	24.344	17.732					28351	9	20.410	2.559	28423	9	11.026	6.782
28119	26	8.380	8.414	28191	18	2.365	18.268					28352	9	20.816	2.350	28424	10	12.490	6.292
28120	32	8.528	8.054	28192	8	4.100	18.773					28353	14	22.226	2.250	28425	8	13.182	6.126
28121	12	10.796	8.060	28193	22	5.880	18.576					28354*	60	22.440	2.386	28426	35	20.354	6.140
28122	8	10.854	8.656	28194	12	9.477	18.760					28355	28	22.688	2.220	28427	8	21.813	6.300
28123	9	15.080	8.558	28195*	49	11.089	18.046					28356	16	25.025	2.422	28428	8	23.532	6.048
28124	10	19.041	8.186	28196	15	13.816	18.550					28357	8	25.900	2.195	28429	10	23.636	6.937
28125	27	21.065	8.884	28197	26	13.997	18.054					28358	35	0.389	3.554	28430	8	24.387	6.760
28126*	23	23.880	8.197	28198	12	19.648	18.676					28359	8	0.761	3.762	28431	10	0.340	7.558
28127	25	2.507	9.046	28199	9	24.050	18.085					28360	10	2.140	3.647	28432	42	0.989	7.148
28128	24	7.382	9.008	28200	18	1.502	19.548					28361	37	5.701	3.086	28433	26	1.083	7.638
28129	10	15.734	9.062	28201	9	2.290	19.120					28362	8	7.214	3.575	28434*	35	1.686	7.847
28130	10	15.742	9.855	28202	26	7.252	19.250					28363	19	8.265	3.266	28435	10	5.170	7.246
28131	10	17.896	9.463	28203	14	9.418	19.732					28364	8	9.671	3.982	28436	11	6.702	7.716
28132	12	18.432	9.966	28204	9	12.306	19.105					28365	22	16.998	3.770	28437	9	7.078	7.582
28133	12	22.191	9.300	28205	13	12.318	19.008					28366	9	20.320	3.613	28438	20	7.870	7.650
28134	8	25.350	9.935	28206	8	17.835	19.532					28367	10	20.978	3.931	28439	8	9.718	7.034
28135	8	4.132	10.103	28207	19	19.735	19.901					28368	8	21.965	3.927	28440*	44	10.150	7.954
28136	11	9.470	10.940	28208	27	0.636	20.937					28369	43	22.240	3.031	28441	9	11.482	7.675
28137*	49	14.918	10.937	28209	8	3.509	20.020					28370	19	24.230	3.379	28442	8	11.580	7.930
28138	15	15.556	10.080	28210	10	3.712	20.211					28371	8	2.362	4.659	28443	14	12.100	7.710
28139	10	17.952	10.583	28211	18	5.572	20.685					28372	9	4.660	4.748	28444	8	13.070	7.812
28140	8	19.170	10.083	28212	10	21.236	20.619					28373	26	6.320	4.154	28445	8	13.258	7.128
28141	13	22.257	10.808	28213	22	23.443	20.164					28374	8	6.624	4.192	28446	11	16.802	7.897
28142*	44	24.406	10.256	28214*	33	23.813	20.999					28375	28	7.610	4.744	28447	8	16.820	7.566
28143	15	1.006	11.364	28215	12	25.332	20.394					28376	23	7.614	4.756	28448	31	17.354	7.233
28144	16	4.892	11.208	28216	13	1.444	21.371					28377	8	9.232	4.762	28449	33	17.406	7.355
28145*	48	11.066	11.653	28217	32	12.222	21.656					28378	10	12.056	4.412	28450	8	18.748	7.454
28146	8	12.319	11.466	28218	9	16.630	21.600					28379	10	13.620	4.034	28451	14	19.134	7.152
28147	16	14.352	11.224	28219	12	18.260	21.776					28380	10	13.650	4.715	28452	20	19.412	7.570
28148	22	18.060	11.313	28220	27	20.278	21.992					28381	8	15.870	4.665	28453	8	19.995	7.128
28149	17	22.866	11.648	28221	9	20.428	21.744					28382	8	18.482	4.971	28454	41	23.740	7.992
28150*	33	24.060	11.033	28222	15	21.412	21.547					28383	10	18.786	4.533	28455	19	23.922	7.660
28151	14	4.023	12.076	28223	11	21.754	21.317					28384	9	20.812	4.434	28456	15	24.377	7.364
28152	26	4.189	12.145	28224	8	0.456	22.382					28385	12	20.950	4.384	28457	17	0.011	8.946
28153	30	11.229	12.300	28225	8	1.494	22.953					28386	24	22.090	4.315	28458	8	1.628	8.650
28154*	55	13.935	12.377	28226	8	1.974	22.158					28387	10	22.659	4.226	28459	9	4.050	8.418
28155	9	18.323	12.556	28227	11	2.393	22.242					28388*	67	23.032	4.644	28460	9	4.054	8.770
28156	8	23.203	12.027	28228	8	4.041	22.127					28389	8	23.206	4.978	28461	8	6.919	8.362
28157	10	23.614	12.192	28229	10	5.972	22.560					28390	10	25.010	4.362	28462*	46	7.894	8.220
28158	26	0.680	13.870	28230	10	8.093	22.573					28391	35	0.468	5.435	28463	11	8.084	8.151
28159	13	1.273	13.487	28231	19	8.446	22.521					28392	22	1.417	5.735	28464	11	9.019	8.044
28160	8	5.564	13.134	28232	11	12.239	22.650					28393	8	1.438	5.972	28465	24	10.950	8.765
28161	8	9.364	13.213	28233*	58	13.120	22.680					28394*	57	3.595	5.852	28466	9	14.488	8.111
28162	14	10.012	13.877	28234	10	17.941	22.766					28395	16	3.924	5.665	28467	12	16.832	8.466
28163*	36	13.944	13.028	28235	16	2.518	23.722					28396	10	4.855	5.296	28468	9	19.078	8.544
28164	8	19.196	13.762	28236	15	6.878	23.074					28397	8	7.576	5.766	28469	13	22.262	8.308
28165	14	20.548	13.461	28237	14	11.930	23.386					28398	19	9.915	5.474	28470	11	22.720	8.613
28166	10	9.812	14.162	28238	8	19.664	23.071					28399	8	10.985	5.811	28471	8	24.100	8.412
28167	10	9.937	14.658	28239	8	22.360	23.280					28400	9	13.324	5.284	28472	10	1.892	9.200
28168*	18	11.173	14.484	28240	9	22.940	23.165					28401	9	13.431	5.980	28473*	58	2.208	9.889
28169	8	12.555	14.012	28241*	52	2.107	24.516					28402	10	13.634	5.282	28474	12	3.147	9.572
28170	12	18.656	14.706	28242	9	2.307	24.584					28403	25	13.806	5.454	28475	8	5.180	9.454
28171*	69	19.601	14.892	28243	9	3.031	24.064					28404	34	14.196	5.630	28476*	78	5.722	9.804
28172	10	19.748	14.960	28244	8	3.811	24.408					28405	19	15.090	5.946	28477	10	8.714	9.753
28173	29	20.400	14.720	28245	26	9.393	24.663					28406	11	15.220	5.786	28478	33	11.036	9.030
28174*	50	4.682	15.593	28246	28	10.618	24.282					28407	8	17.734	5.524	28479	41	12.556	9.207
28175	24	7.462	15.215	28247*	37	21.182	24.294					28408	41	18.860	5.730	28480</			

28483	9	18.010	9.600	28555	27	25.058	12.412	28627	8	22.810	16.704	28699	8	19.918	20.267	28771	8	10.445	25.397
28484	8	18.566	9.517	28556	23	25.911	12.575	28628	8	24.418	16.632	28700	8	21.400	20.037	28772	11	11.390	25.310
28485	24	18.660	9.234	28557	10	1.499	13.128	28629	8	24.430	16.964	28701	14	23.944	20.238	28773	8	12.340	25.885
28486	8	21.696	9.380	28558	8	2.471	13.602	28630	8	25.588	16.186	28702	10	1.284	21.861	28774	8	12.715	25.486
28487	19	23.358	9.788	28559	9	2.856	13.210	28631	17	25.995	16.200	28703	8	2.267	21.730	28775	10	14.157	25.704
28488	8	23.404	9.745	28560	8	4.090	13.363	28632	12	0.917	17.038	28704	11	2.704	21.018	28776	8	14.300	25.098
28489	10	24.110	9.740	28561	9	9.210	13.264	28633	11	1.862	17.660	28705	8	8.804	21.253	28777	12	18.930	25.107
28490	11	24.506	9.118	28562	11	10.126	13.668	28634	10	2.154	17.308	28706	8	9.038	21.298	28778	8	19.268	25.561
28491	17	0.080	10.442	28563	13	10.140	13.515	28635	8	4.235	17.440	28707	11	10.145	21.896	28779	32	23.265	25.814
28492	8	0.844	10.858	28564	10	10.354	13.833	28636	16	4.905	17.718	28708	24	12.837	21.692	28780	13	23.720	25.973
28493*	45	1.868	10.660	28565	8	11.080	13.305	28637	8	6.968	17.933	28709	8	13.814	21.348				
28494	10	2.978	10.710	28566	9	13.053	13.950	28638	12	8.100	17.082	28710	22	13.988	21.148				
28495	8	3.148	10.035	28567	8	13.127	13.420	28639	8	8.636	17.888	28711	12	14.060	21.062				
28496	8	3.160	10.301	28568	8	13.464	13.036	28640	10	9.810	17.983	28712	8	15.246	21.180				
28497	8	3.520	10.405	28569	8	19.834	13.852	28641	10	11.281	17.760	28713	10	15.310	21.458				
28498	13	5.170	10.840	28570	10	22.524	13.763	28642	8	12.652	17.096	28714	10	16.420	21.546				
28499	8	5.473	10.348	28571*	41	23.060	13.984	28643	26	13.210	17.513	28715	10	17.302	21.545				
28500	35	5.882	10.860	28572	10	23.727	13.704	28644	8	16.156	17.687	28716	18	23.924	21.320				
28501	8	5.930	10.016	28573	23	25.351	13.263	28645	8	19.264	17.139	28717	9	0.189	22.808				
28502	10	7.756	10.603	28574	9	25.812	13.588	28646	12	20.438	17.533	28718	10	0.764	22.693				
28503	8	8.453	10.839	28575	8	3.857	14.754	28647	16	21.276	17.990	28719	10	6.906	22.465				
28504	11	8.576	10.754	28576	8	4.016	14.400	28648	11	22.617	17.246	28720	8	10.641	22.088				
28505	20	8.754	10.894	28577	8	5.978	14.344	28649	8	23.510	17.098	28721	19	15.790	22.590				
28506	24	9.371	10.837	28578	24	7.525	14.604	28650	8	25.874	17.154	28722	8	19.100	22.468				
28507	8	9.839	10.247	28579	8	7.820	14.944	28651	8	0.609	18.107	28723	10	19.202	22.258				
28508	29	10.148	10.370	28580	8	8.006	14.762	28652	8	2.798	18.785	28724	8	19.366	22.965				
28509	25	10.280	10.752	28581	15	8.835	14.180	28653	9	5.990	18.528	28725	8	19.370	22.323				
28510	9	10.492	10.695	28582	10	11.538	14.540	28654	25	6.962	18.234	28726	13	20.752	22.275				
28511	10	18.780	10.292	28583	8	11.778	14.490	28655*	113	7.809	18.479	28727	10	22.226	22.151				
28512	10	21.491	10.444	28584*	35	13.524	14.384	28656	10	9.236	18.720	28728	13	24.644	22.614				
28513	14	22.189	10.176	28585	8	13.897	14.450	28657	35	10.108	18.890	28729	8	25.992	22.344				
28514	9	22.625	10.777	28586	8	15.160	14.320	28658	11	10.870	18.792	28730	8	7.066	23.473				
28515	12	23.435	10.528	28587	9	20.126	14.971	28659	11	11.018	18.130	28731	13	8.660	23.412				
28516	15	23.564	10.302	28588	8	20.280	14.922	28660	8	11.260	18.142	28732	26	9.412	23.714				
28517	23	23.881	10.991	28589	8	20.443	14.322	28661	8	11.848	18.740	28733	8	12.106	23.285				
28518	10	24.074	10.215	28590*	66	21.259	14.411	28662	8	12.842	18.090	28734	8	14.188	23.200				
28519	26	0.684	11.270	28591	15	21.940	14.412	28663	8	14.123	18.397	28735	12	14.431	23.752				
28520	10	1.017	11.650	28592	8	21.940	14.280	28664	9	16.998	18.602	28736	12	15.724	23.404				
28521	11	1.428	11.810	28593	24	22.556	14.116	28665	8	22.274	18.270	28737	16	16.093	23.438				
28522	8	1.742	11.329	28594	22	23.032	14.685	28666	25	23.107	18.993	28738	11	18.716	23.612				
28523	8	2.127	11.350	28595	8	24.762	14.498	28667	8	25.096	18.982	28739	16	21.826	23.557				
28524	8	3.270	11.582	28596	9	24.848	14.477	28668	12	25.210	18.990	28740	9	22.612	23.166				
28525	13	9.030	11.652	28597	9	25.068	14.932	28669	28	25.974	18.293	28741	10	0.848	24.580				
28526	9	9.337	11.460	28598	15	25.863	14.060	28670	28	1.258	19.720	28742	9	3.930	24.712				
28527	26	9.366	11.940	28599	12	25.999	14.529	28671	19	3.133	19.950	28743*	70	4.210	24.080				
28528	13	9.485	11.948	28600	12	0.163	15.292	28672	8	4.552	19.368	28744	50	4.236	24.076				
28529	8	9.750	11.266	28601	8	1.043	15.331	28673	8	4.611	19.152	28745	18	4.562	24.470				
28530	8	10.658	11.382	28602	8	1.350	15.719	28674	10	4.800	19.980	28746	8	5.831	24.871				
28531	19	11.555	11.760	28603	8	3.442	15.631	28675	8	4.995	19.489	28747	8	6.638	24.492				
28532	19	11.734	11.676	28604	22	4.711	15.075	28676	10	5.776	19.340	28748	8	6.802	24.016				
28533	8	12.660	11.210	28605	9	6.630	15.610	28677	10	5.948	19.972	28749	10	6.808	24.707				
28534	12	17.311	11.763	28606	12	11.490	15.145	28678	10	12.760	19.970	28750	11	6.862	24.772				
28535	8	3.786	12.730	28607	9	12.841	15.362	28679	11	13.128	19.108	28751	8	8.762	24.389				
28536	33	4.433	12.725	28608	8	14.630	15.259	28680	24	14.234	19.151	28752	12	11.175	24.118				
28537	10	5.244	12.550	28609	8	15.412	15.536	28681	10	14.807	19.301	28753	20	13.853	24.424				
28538	10	5.320	12.160	28610	9	15.920	15.616	28682	15	17.379	19.296	28754	8	15.513	24.137				
28539	8	5.904	12.588	28611	8	17.384	15.880	28683	9	19.263	19.797	28755	8	15.646	24.056				
28540	8	9.536	12.844	28612	10	17.570	15.622	28684	28	21.209	19.880	28756	8	15.651	24.624				
28541	19	9.930	12.064	28613	8	22.318	15.448	28685	9	23.291	19.872	28757	10	16.482	24.292				
28542	8	12.909	12.038	28614	19	22.646	15.650	28686	10	1.112	20.462	28758	8	17.215	24.382				
28543	8	14.036	12.555	28615	9	22.902	15.698	28687	8	1.130	20.718	28759	24	18.156	24.171				
28544	11	14.160	12.445	28616	9	23.154	15.906	28688*	44	1.626	20.550	28760	8	18.648	24.168				
28545	9	14.928	12.014	28617	31	24.506	15.538	28689	10	3.296	20.159	28761	10	19.427	24.320				
28546	8	15.049	12.294	28618	9	25.550	15.539	28690	10	3.544	20.585	28762	10	21.340	24.210				
28547	8	16.176	12.656	28619	8	0.108	16.116	28691	8	8.598	20.834	28763	10	24.272	24.261				
28548	16	17.109	12.938	28620	8	0.972	16.606	28692	8	12.319	20.890	28764	8	24.573	24.688				
28549	10	18.150	12.353	28621	8	4.028	16.673	28693	10	13.508	20.176	28765	8	25.946	24.919				
28550	37	18.914	12.318	28622	8	5.538	16.695	28694	10	13.924	20.496	28766	8	1.836	25.849				
28551	28	19.104	12.046	28623	13	8.846	16.906	28695	21	18.050	20.942	28767	10	2.692	25.717				
28552	8	19.360	12.020	28															

28834	8	23.288	1.342	28906	42	1.574	6.123	28978	8	4.396	9.185	29050	8	24.041	12.854	29122	8	19.603	15.342
28835	8	23.444	1.856	28907	9	4.792	6.094	28979	38	8.623	9.579	29051	12	1.540	13.998	29123	10	20.795	15.730
28836	72	0.080	2.698	28908*	80	5.285	6.792	28980	30	8.816	9.038	29052	8	2.174	13.311	29124	11	21.445	15.226
28837	44	0.334	2.526	28909	12	5.500	6.126	28981	8	10.482	9.707	29053	8	2.474	13.766	29125	33	23.144	15.915
28838	27	2.674	2.693	28910	8	6.756	6.036	28982	9	11.454	9.408	29054	8	2.950	13.324	29126*	60	23.269	15.545
28839	30	3.183	2.106	28911	42	7.642	6.979	28983	51	12.100	9.573	29055	38	3.155	13.533	29127	8	23.648	15.527
28840	8	3.544	2.452	28912	9	9.454	6.337	28984*	60	13.063	9.236	29056	8	3.616	13.774	29128	10	0.744	16.002
28841	8	6.906	2.984	28913	25	9.748	6.034	28985	52	15.672	9.108	29057	10	3.624	13.854	29129	8	2.274	16.913
28842	12	8.315	2.355	28914	60	12.452	6.266	28986	32	15.796	9.072	29058	9	3.845	13.310	29130	8	3.432	16.452
28843	8	9.450	2.032	28915*	95	12.477	6.096	28987	8	16.195	9.239	29059*	82	4.025	13.212	29131	36	3.844	16.462
28844	12	10.584	2.366	28916	8	12.949	6.071	28988	22	17.766	9.168	29060	10	6.176	13.859	29132	8	3.944	16.254
28845	12	10.836	2.837	28917	40	14.662	6.852	28989	8	20.074	9.510	29061	8	6.536	13.055	29133	11	9.036	16.120
28846	10	10.984	2.991	28918	50	14.704	6.115	28990	33	20.545	9.292	29062	8	6.848	13.675	29134	21	10.625	16.204
28847	11	12.296	2.407	28919	8	15.476	6.947	28991	8	23.092	9.052	29063	8	7.330	13.019	29135	10	11.818	16.138
28848	10	12.631	2.408	28920	8	15.819	6.395	28992	8	23.272	9.232	29064	8	9.050	13.855	29136	50	13.271	16.504
28849	20	14.028	2.344	28921	64	18.940	6.632	28993	31	1.112	10.084	29065	9	10.541	13.295	29137	43	13.475	16.918
28850	54	14.651	2.478	28922	19	19.178	6.242	28994	8	1.157	10.036	29066	8	11.742	13.753	29138	16	14.384	16.550
28851	13	14.858	2.080	28923	12	19.626	6.343	28995	27	1.200	10.823	29067	30	11.744	13.138	29139	9	15.604	16.710
28852	14	15.449	2.115	28924	9	20.206	6.028	28996	34	1.325	10.595	29068	63	11.860	13.819	29140	8	16.131	16.737
28853	8	16.347	2.284	28925	28	21.120	6.828	28997	11	1.835	10.504	29069	40	14.264	13.806	29141	10	16.154	16.754
28854	10	17.758	2.711	28926	40	22.072	6.088	28998	12	1.864	10.028	29070	17	14.830	13.486	29142	38	17.046	16.045
28855	12	19.179	2.067	28927	8	22.244	6.366	28999	10	2.846	10.434	29071	10	17.628	13.082	29143	20	17.272	16.093
28856	12	20.653	2.711	28928	8	25.574	6.092	29000	8	4.949	10.332	29072	8	19.427	13.628	29144	9	18.502	16.635
28857	8	20.700	2.844	28929	8	0.462	7.303	29001	38	6.232	10.014	29073	10	19.496	13.874	29145	8	22.354	16.624
28858	8	21.530	2.459	28930	10	1.349	7.232	29002	9	6.375	10.552	29074	10	20.804	13.505	29146	40	22.806	16.214
28859	38	1.890	3.666	28931	33	1.645	7.948	29003	33	7.296	10.258	29075	10	21.920	13.614	29147	8	24.886	16.475
28860	54	3.866	3.807	28932	30	2.095	7.646	29004	42	8.716	10.544	29076	8	22.728	13.486	29148	16	0.480	17.554
28861	9	7.469	3.031	28933	8	2.096	7.042	29005	52	11.979	10.185	29077	8	23.425	13.208	29149	8	0.668	17.010
28862	10	8.100	3.069	28934	8	4.596	7.056	29006	8	13.446	10.680	29078	8	24.856	13.197	29150	8	1.371	17.390
28863	9	9.652	3.611	28935	45	8.022	7.068	29007	22	13.618	10.036	29079	9	0.336	14.073	29151	8	1.552	17.274
28864	10	10.985	3.612	28936	8	11.294	7.516	29008	10	14.670	10.136	29080	41	0.373	14.424	29152	8	2.292	17.245
28865	8	14.726	3.815	28937	11	14.075	7.194	29009	16	15.906	10.446	29081	43	0.856	14.986	29153	8	2.799	17.569
28866	8	15.422	3.538	28938	10	15.828	7.232	29010	14	17.155	10.919	29082	60	0.874	14.288	29154	8	3.736	17.416
28867	8	16.101	3.325	28939	8	16.036	7.820	29011	8	18.741	10.354	29083	10	2.587	14.776	29155	18	3.952	17.478
28868	13	16.900	3.118	28940	8	18.252	7.854	29012	9	21.905	10.776	29084	10	2.674	14.750	29156	12	4.444	17.455
28869	17	19.946	3.894	28941	62	19.282	7.734	29013	9	22.937	10.538	29085	29	3.680	14.324	29157	8	5.136	17.244
28870	46	20.045	3.298	28942	8	19.352	7.802	29014	9	23.788	10.205	29086	26	3.822	14.789	29158	8	5.716	17.821
28871	8	20.210	3.313	28943	13	19.926	7.040	29015	8	23.895	10.388	29087	8	4.110	14.356	29159	8	5.896	17.359
28872	8	20.996	3.931	28944	17	0.458	8.922	29016	8	25.555	10.210	29088	8	5.092	14.433	29160	8	9.104	17.040
28873	9	24.559	3.628	28945	60	1.466	8.284	29017	8	25.962	10.375	29089	40	5.551	14.696	29161*	65	10.716	17.178
28874	10	0.334	4.534	28946	8	1.813	8.664	29018	10	0.394	11.086	29090	8	5.994	14.516	29162	16	10.899	17.213
28875	82	0.706	4.946	28947	9	1.832	8.704	29019	38	1.654	11.278	29091	39	9.856	14.072	29163	12	11.636	17.850
28876	13	2.686	4.634	28948	9	4.167	8.524	29020	8	5.726	11.731	29092	8	10.844	14.686	29164	10	14.454	17.842
28877	20	3.718	4.046	28949	9	5.797	8.461	29021	9	9.818	11.178	29093	8	11.723	14.783	29165	12	18.644	17.069
28878	8	5.322	4.596	28950	9	5.940	8.269	29022	8	10.249	11.324	29094	30	11.847	14.620	29166	8	18.834	17.381
28879	10	5.947	4.523	28951	16	7.240	8.784	29023	53	10.485	11.884	29095	10	15.191	14.064	29167	20	19.916	17.182
28880	13	14.157	4.544	28952	11	7.636	8.574	29024	38	10.504	11.466	29096	8	15.500	14.698	29168	8	21.325	17.935
28881	10	15.052	4.315	28953	8	10.518	8.588	29025	9	15.898	11.368	29097	8	15.550	14.855	29169	14	22.853	17.928
28882	11	18.032	4.910	28954*	103	10.902	8.006	29026	8	18.788	11.687	29098	8	17.014	14.874	29170	9	24.856	17.084
28883	10	20.870	4.266	28955	11	10.903	8.047	29027	54	19.650	11.535	29099	8	18.117	14.264	29171	8	25.338	17.395
28884	8	23.980	4.200	28956	10	10.908	8.900	29028	9	22.870	11.802	29100	10	18.154	14.969	29172	8	0.154	18.582
28885	8	0.891	5.277	28957	12	10.972	8.052	29029*	77	22.935	11.665	29101	12	19.857	14.998	29173	8	2.634	18.272
28886	24	4.046	5.214	28958*	127	10.973	8.010	29030	12	24.640	11.474	29102	9	21.694	14.626	29174	49	3.853	18.552
28887	8	4.100	5.213	28959	31	12.178	8.616	29031	10	24.899	11.414	29103	11	21.836	14.223	29175	38	4.394	18.078
28888*	62	7.850	5.655	28960	8	13.234	8.864	29032	9	0.786	12.189	29104	22	24.505	14.574	29176	11	7.034	18.306
28889	8	8.306	5.906	28961	10	14.636	8.652	29033	10	2.451	12.479	29105	12	24.759	14.414	29177	10	7.462	18.655
28890	36	8.464	5.986	28962	34	17.399	8.918	29034	50	2.849	12.686	29106	8	25.604	14.641	29178	8	9.272	18.516
28891	8	8.669	5.024	28963	52	18.015	8.222	29035	37	3.706	12.836	29107	34	0.486	15.962	29179	8	11.152	18.320
28892	32	11.725	5.726	28964	40	18.608	8.250	29036	12	4.534	12.722	29108	43	2.340	15.648	29180	8	11.398	18.354
28893	40	12.014	5.792	28965	22	19.495	8.640	29037	8	5.180	12.498	29109	10	2.898	15.207	29181	8	12.116	18.212
28894	8	13.575	5.614	28966	9	19.606	8.676	29038	9	5.583	12.127	29110	10	3.390	15.803	29182	8	13.042	18.318
28895	8	14.054	5.870	28967	8	21.874	8.581	29039*	62	8.722	12.628	29111	8	7.543	15.254	29183	8	13.048	18.058
28896	8	16.574	5.386	28968	8	22.310	8.075	29040	10	8.852	12.592	29112	8	9.746	15.131	29184	58	14.636	18.513
28897	11	17.040	5.720	28969															

29194	8	2.986	19.254	29266	9	20.285	22.284	R.A. 10 ^h 8 ^m Plate 607; 1916 March 2. Provisional Constants. A B C -0.02570 +0.00616 +1.333 D E F -0.00608 -0.02577 -1.517 Mag. = 16.5 - 1.05√d	29406	10	13.400	3.362	29478*	47	18.424	7.992
29195	17	3.101	19.258	29267	8	20.729	22.835		29407	24	13.884	3.798	29479	8	20.548	7.492
29196	10	4.266	19.660	29268	8	21.214	22.444		29408	8	14.806	3.606	29480	8	20.770	7.218
29197	10	4.618	19.973	29269	10	23.027	22.487		29409	8	15.720	3.211	29481	8	23.899	7.228
29198	8	6.168	19.138	29270	8	24.397	22.944	29410	8	16.512	3.339	29482	8	23.922	7.864	
29199*	58	6.462	19.150	29271	28	24.445	22.103	29411	16	17.586	3.756	29483	17	24.502	7.401	
29200	8	6.600	19.177	29272	9	25.224	22.253	29412	14	18.478	3.569	29484	21	24.588	7.918	
29201	8	6.600	19.656	29273	8	25.693	22.464	29413	8	20.285	3.892	29485	8	1.474	8.548	
29202	8	9.558	19.477	29274	8	0.566	23.474	29414	34	24.553	3.547	29486	20	2.480	8.233	
29203	43	9.972	19.491	29275	8	4.300	23.083	29415	8	25.230	3.511	29487*	53	2.826	8.972	
29204	8	11.675	19.536	29276	10	5.460	23.855	29416	40	25.425	3.360	29488*	76	3.038	8.410	
29205	23	12.594	19.016	29277	8	6.107	23.228	29417	10	25.654	3.970	29489	8	3.468	8.260	
29206	12	14.360	19.740	29278	10	8.294	23.108	29418	10	1.509	4.266	29490	8	3.836	8.944	
29207	8	17.075	19.204	29279	22	8.352	23.252	29419	10	3.926	4.922	29491	9	5.018	8.890	
29208	41	19.928	19.078	29280	8	8.958	23.573	29420	8	3.938	4.524	29492	20	9.735	8.580	
29209	8	20.730	19.798	29281	11	9.797	23.173	29421	9	4.046	4.084	29493	25	11.104	8.043	
29210	8	23.846	19.908	29282*	61	11.818	23.680	29422	11	9.552	4.317	29494	20	11.676	8.254	
29211	8	23.062	19.062	29283*	80	12.164	23.337	29423	25	12.853	4.378	29495	11	12.274	8.500	
29212	10	25.218	19.044	29284	9	12.487	23.185	29424	9	13.024	4.682	29496	8	13.812	8.812	
29213	10	1.196	20.172	29285	8	15.204	23.708	29425	11	18.285	4.634	29497	31	17.308	8.614	
29214	22	1.851	20.526	29286	8	16.298	23.564	29426	8	21.058	4.391	29498	11	18.915	8.550	
29215	8	3.560	20.140	29287	8	16.672	23.527	29427	26	23.540	4.984	29499	8	20.546	8.565	
29216	17	4.513	20.060	29288	8	16.924	23.136	29428	35	24.390	4.450	29500	9	0.685	9.122	
29217	8	8.514	20.962	29289	8	17.486	23.824	29429	20	1.495	5.984	29501	13	3.883	9.570	
29218	51	8.992	20.234	29290	9	17.836	23.916	29430	19	5.094	5.972	29502	36	4.005	9.954	
29219	11	9.335	20.916	29291	52	18.050	23.500	29431	14	5.206	5.516	29503*	41	4.314	9.876	
29220	8	12.192	20.556	29292	12	18.220	23.928	29432	23	6.874	5.912	29504	8	5.700	9.603	
29221	49	12.340	20.043	29293	8	20.132	23.988	29433	8	7.250	5.774	29505	13	7.118	9.329	
29222	10	12.632	20.172	29294	10	23.458	23.732	29434	10	8.414	5.288	29506	8	8.026	9.884	
29223	10	12.941	20.447	29295	8	24.534	23.472	29435	11	10.637	5.478	29507	35	8.285	9.352	
29224	8	13.495	20.852	29296	11	2.240	24.546	29436	38	11.209	5.922	29508	8	8.657	9.559	
29225	10	16.236	20.404	29297	8	2.545	24.967	29437	8	11.268	5.490	29509	18	9.144	9.672	
29226	8	16.588	20.372	29298	8	5.663	24.568	29438	8	14.418	5.270	29510	8	9.700	9.717	
29227	10	17.068	20.356	29299	22	7.345	24.752	29439	22	15.574	5.830	29511	12	10.587	9.279	
29228	9	20.354	20.877	29300	31	8.384	24.981	29440	8	16.662	5.750	29512	8	14.275	9.676	
29229	8	25.158	20.796	29301	8	8.936	24.431	29441*	44	16.850	5.470	29513	8	15.013	9.650	
29230	27	25.698	20.022	29302	24	9.616	24.095	29442	8	20.644	5.257	29514	8	15.865	9.930	
29231	27	1.846	21.614	29303	11	11.043	24.266	29443	8	25.154	5.433	29515	9	18.836	9.485	
29232	8	3.434	21.322	29304	31	12.110	24.755	29444	14	25.573	5.864	29516	15	20.430	9.853	
29233	8	3.666	21.245	29305	11	12.190	24.902	29445	8	25.950	5.644	29517	9	20.651	9.150	
29234	8	3.915	21.134	29306	8	12.251	24.092	29446	15	0.546	6.050	29518	9	23.161	9.774	
29235	10	4.397	21.577	29307	8	12.721	24.225	29447	8	2.849	6.460	29519	8	0.552	10.614	
29236	9	4.690	21.345	29308	8	12.864	24.588	29448	8	3.127	6.130	29520	12	1.398	10.266	
29237	9	6.142	21.406	29309	11	13.274	24.698	29449	21	4.061	6.622	29521	9	1.505	10.449	
29238	8	8.089	21.580	29310	8	18.642	24.564	29450	10	4.128	6.340	29522	8	3.166	10.247	
29239	8	8.272	21.014	29311	8	25.902	24.566	29451	10	6.256	6.157	29523	8	3.572	10.413	
29240	20	8.710	21.015	29312	8	0.374	25.520	29452	8	6.406	6.470	29524	8	3.771	10.483	
29241	10	9.331	21.976	29313	8	3.201	25.394	29453	28	8.202	6.735	29525	24	4.029	10.081	
29242	8	13.022	21.312	29314	8	3.650	25.016	29454	30	8.378	6.095	29526	10	6.326	10.352	
29243	8	15.602	21.985	29315	8	3.770	25.154	29455*	49	8.434	6.626	29527	41	6.399	10.340	
29244	44	16.158	21.198	29316	8	3.926	25.176	29456	8	11.016	6.742	29528	8	6.760	10.683	
29245	40	19.899	21.344	29317	31	5.822	25.375	29457	8	12.186	6.567	29529	8	8.216	10.678	
29246	16	21.530	21.613	29318	8	7.565	25.044	29458	20	12.740	6.514	29530*	44	8.868	10.075	
29247	8	25.411	21.294	29319	8	8.232	25.886	29459	31	15.359	6.770	29531	10	11.050	10.670	
29248	10	0.163	22.464	29320	8	11.864	25.143	29460	11	15.546	6.945	29532	27	18.471	10.987	
29249	9	2.004	22.453	29321	13	12.130	25.266	29461	9	16.059	6.470	29533	9	19.258	10.194	
29250	12	2.586	22.894	29322	8	16.506	25.458	29462	10	17.924	6.594	29534	9	21.368	10.006	
29251	8	3.114	22.582	29323	34	17.842	25.630	29463	30	18.054	6.389	29535	19	22.189	10.953	
29252	10	3.926	22.604	29324	8	18.746	25.324	29464	20	20.056	6.560	29536	8	23.800	10.968	
29253	17	4.428	22.272	29325	20	18.974	25.333	29465	10	20.856	6.448	29537*	60	23.884	10.224	
29254	11	5.151	22.614	29326	12	20.076	25.231	29466	8	22.274	6.310	29538	10	0.502	11.877	
29255	10	6.692	22.462	29327	8	20.907	25.857	29467	19	24.584	6.468	29539				

29550	10	12.731	11.644	29622	34	14.464	14.021	29694	8	22.967	17.570	29766	15	16.735	21.958	29838	8	1.160	25.448
29551	8	17.647	11.687	29623	10	14.706	14.634	29695	8	24.788	17.080	29767	20	16.819	21.824	29839	8	3.074	25.429
29552	27	17.968	11.458	29624	13	15.047	14.986	29696	25	0.506	18.206	29768	8	19.646	21.820	29840	14	5.678	25.131
29553*	51	21.005	11.564	29625	8	15.856	14.852	29697	12	0.571	18.001	29769	8	19.752	21.506	29841	8	6.914	25.944
29554	10	23.623	11.450	29626	10	16.817	14.192	29698	8	3.068	18.785	29770*	85	23.380	21.888	29842	15	13.536	25.485
29555	8	25.656	11.666	29627	10	20.088	14.790	29699	11	4.155	18.805	29771	8	25.091	21.470	29843	8	18.430	25.940
29556	25	25.806	11.605	29628	9	20.908	14.386	29700	8	6.065	18.593	29772	14	25.245	21.848	29844	10	18.721	25.812
29557	16	0.929	12.523	29629	41	21.776	14.412	29701	22	6.066	18.544	29773	10	25.488	21.266	29845	27	22.172	25.086
29558	26	0.976	12.498	29630*	50	22.178	14.951	29702	17	6.204	18.680	29774	11	0.811	22.560	29846	8	24.420	25.322
29559*	52	1.404	12.712	29631	29	22.205	14.770	29703	12	6.812	18.302	29775	8	2.185	22.996				
29560	8	1.686	12.915	29632	42	23.734	14.386	29704	8	7.320	18.922	29776	26	2.222	22.152				
29561	11	4.111	12.810	29633	35	24.777	14.211	29705	9	8.457	18.636	29777	10	3.001	22.296				
29562	9	5.398	12.855	29634	22	0.832	15.984	29706	8	9.731	18.592	29778	9	3.474	22.497				
29563	18	6.504	12.120	29635*	41	0.951	15.616	29707	25	11.210	18.474	29779	8	4.386	22.453				
29564	16	8.292	12.390	29636	8	1.332	15.591	29708	13	12.134	18.907	29780	8	5.390	22.522				
29565	43	9.860	12.742	29637	10	3.936	15.586	29709	8	15.298	18.742	29781	28	6.336	22.278				
29566	18	11.310	12.164	29638	8	6.192	15.436	29710	12	15.662	18.250	29782	12	6.532	22.600				
29567	8	11.655	12.778	29639*	42	7.200	15.130	29711	36	16.694	18.210	29783	8	8.097	22.444				
29568	8	11.656	12.810	29640	10	7.730	15.476	29712	21	20.125	18.705	29784	8	8.233	22.143				
29569	10	11.850	12.598	29641	10	7.835	15.812	29713	26	21.505	18.184	29785*	33	8.241	22.749				
29570	13	12.655	12.155	29642	24	9.820	15.413	29714	8	23.229	18.576	29786	41	8.292	22.772				
29571	16	13.766	12.204	29643	11	15.952	15.852	29715	28	24.153	18.738	29787	9	9.750	22.520				
29572	9	14.140	12.246	29644	15	16.486	15.400	29716	15	25.080	18.372	29788	10	9.852	22.430				
29573*	35	14.422	12.730	29645	20	17.559	15.680	29717	8	25.206	18.744	29789	16	12.300	22.164				
29574	8	16.058	12.490	29646	28	18.468	15.060	29718	8	1.590	19.970	29790*	42	12.452	22.514				
29575	25	17.902	12.820	29647	8	20.316	12.886	29719	12	2.951	19.082	29791	20	12.512	22.479				
29576	17	20.364	12.174	29648	24	21.982	15.800	29720	19	4.136	19.015	29792	8	13.265	22.011				
29577	28	20.947	12.666	29649	8	22.112	15.094	29721	8	9.304	19.039	29793	8	13.626	22.940				
29578	8	21.956	12.756	29650	11	24.200	15.988	29722	32	9.634	19.806	29794	8	15.200	22.766				
29579	14	24.604	12.556	29651	12	25.131	15.751	29723	8	11.750	19.500	29795	19	15.410	22.616				
29580	8	25.266	12.154	29652	31	0.499	16.290	29724	10	12.378	19.009	29796	21	16.152	22.733				
29581	26	25.594	12.474	29653	8	2.584	16.520	29725	15	12.556	19.454	29797	28	17.445	22.032				
29582	29	25.620	12.810	29654*	49	5.145	16.872	29726	12	16.332	19.680	29798	13	21.306	22.130				
29583	8	1.078	13.273	29655	9	6.358	16.926	29727	35	16.632	19.604	29799	32	21.622	22.287				
29584	10	5.785	13.460	29656	13	6.486	16.925	29728	15	20.190	19.700	29800	9	23.774	22.135				
29585	9	6.002	13.682	29657	8	7.527	16.026	29729	8	22.400	19.068	29801	38	24.116	22.154				
29586	8	6.355	13.587	29658	36	9.250	16.914	29730	8	23.858	19.772	29802	11	1.258	23.795				
29587	17	6.715	13.524	29659	8	11.665	16.044	29731	11	2.916	20.839	29803	25	5.199	23.515				
29588*	80	6.764	13.795	29660	10	11.858	16.251	29732	29	3.446	20.056	29804	8	5.587	23.073				
29589	23	7.097	13.009	29661	9	13.312	16.099	29733	13	3.924	20.893	29805	11	6.075	23.116				
29590	8	7.546	13.962	29662	8	16.206	16.695	29734	12	4.168	20.984	29806	8	6.554	23.080				
29591	11	8.714	13.852	29663	8	20.164	16.320	29735	8	6.240	20.645	29807	8	7.074	23.066				
29592	31	8.995	13.470	29664	22	21.468	16.150	29736	8	7.206	20.758	29808	13	10.055	23.551				
29593	8	9.702	13.258	29665	25	22.080	16.400	29737	26	8.095	20.880	29809	12	12.765	23.642				
29594	33	11.244	13.906	29666	8	22.290	16.146	29738	10	12.000	20.198	29810	10	13.444	23.550				
29595*	51	15.310	13.704	29667	30	25.129	16.641	29739*	80	12.602	20.131	29811	9	15.872	23.071				
29596	14	15.334	13.078	29668	13	25.250	16.694	29740	10	14.059	20.150	29812	42	19.324	23.950				
29597	40	15.356	13.400	29669	10	25.996	16.878	29741	23	14.706	20.640	29813	10	19.626	23.226				
29598	8	16.594	13.384	29670	10	2.564	17.128	29742*	44	15.598	20.384	29814	10	19.650	23.066				
29599	13	19.020	13.942	29671	11	3.048	17.435	29743	28	16.400	20.862	29815	8	20.522	23.924				
29600	8	19.756	13.510	29672	14	3.968	17.513	29744	12	19.142	20.742	29816	8	22.076	23.472				
29601	8	20.600	13.444	29673	14	5.485	17.486	29745	20	19.721	20.230	29817	24	22.744	23.750				
29602	18	22.044	13.200	29674	43	7.194	17.906	29746	8	20.348	20.595	29818	10	25.980	23.516				
29603	22	2.176	14.626	29675	30	7.980	17.272	29747	23	20.758	20.867	29819	12	3.716	24.600				
29604	14	2.428	14.460	29676*	62	8.874	17.886	29748	19	20.939	20.582	29820	37	7.441	24.106				
29605	8	3.680	14.650	29677	10	8.966	17.550	29749	8	21.468	20.850	29821	15	10.062	24.084				
29606	8	3.962	14.750	29678	12	9.178	17.062	29750	23	21.674	20.254	29822	24	10.570	24.310				
29607	25	4.232	14.244	29679	8	10.900	17.986	29751	15	22.570	20.338	29823	10	11.512	24.476				
29608	8	4.281	14.476	29680	12	12.385	17.259	29752	12	22.826	20.498	29824*	60	11.598	24.844				
29609	15	5.278	14.564	29681	8	14.936	17.366	29753	8	3.173	21.334	29825	24	11.844	24.258				
29610	8	5.574	14.760	29682	10	15.797	17.750	29754	32	5.594	21.546	29826	8	12.480	24.661				
29611	12	6.470	14.382	29683	8	16.344	17.834	29755	8	10.834	21.040	29827	30	13.418	24.931				
29612	40	6.621	14.415	29684	36	16.880	17.416	29756	30	10.984	21.448	29828	22	13.442	24.061				
29613	29	6.766	14.506	29685	11	18.374	17.264	29757	14	11.347	21.350	29829	10	13.476	24.936				
29614	8	7.607	14.312	29686	8	18.524	17.198	29758	8	11.456	21.556	29830	8	14.076	24.508				
29615	8	8.870	14.548	29687	12	19.207	17.080	29759	28	11.879	21.170	29831	10	17.172	24.564				
29616	9	10.676	14.792	29688	11	19.944	17.330	29760	11	12.230	21.451	29832	10	19.001	24.291				
29617	17	11.274	14.796	29689	8	20.210	17.881	29761	8	12.709	21.480	29833	11	19.522	24.138				
29618	16	11.386	14.323	29690*	60	20.646	17.534	29762	13	13.283	21.820	29834	25	21.802	24.314				
29619	8																		

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30256	32	16.739	4.856	30328	8	7.190	11.506	30400	8	0.106	16.305	30472	24	10.665	21.983
30257*	58	17.828	4.998	30329	16	12.722	11.088	30401	40	0.258	16.185	30473*	42	10.706	21.186
30258	13	18.821	4.979	30330	13	14.082	11.680	30402	14	0.864	16.521	30474	30	10.800	21.290
30259*	40	22.661	4.952	30331	14	18.829	11.278	30403	24	2.784	16.190	30475	14	11.941	21.775
30260	10	7.275	5.148	30332	14	18.968	11.368	30404	11	4.138	16.862	30476	8	12.255	21.328
30261	16	7.382	5.160	30333	9	19.551	11.102	30405	12	5.222	16.836	30477	12	20.217	21.835
30262	12	7.634	5.224	30334*	54	20.508	11.465	30406	8	5.805	16.056	30478	8	20.704	21.525
30263	8	8.885	5.976	30335	26	20.856	11.778	30407	9	13.644	16.004	30479	10	21.708	21.625
30264	9	11.326	5.448	30336	21	23.042	11.130	30408	8	16.906	16.789	30480	13	22.847	21.794
30265	10	11.723	5.880	30337	8	23.214	11.199	30409	36	16.920	16.948	30481	8	23.544	21.925
30266	30	15.412	5.155	30338	8	1.354	12.274	30410	9	19.874	16.664	30482	17	23.640	21.580
30267	9	16.114	5.436	30339	9	3.330	12.186	30411	8	22.454	16.566	30483	16	0.686	22.706
30268	8	21.822	5.384	30340	8	3.400	12.532	30412	10	0.929	17.691	30484	24	13.377	22.406
30269	8	22.282	5.840	30341	12	5.575	12.986	30413	8	2.612	17.162	30485	8	14.314	22.858
30270	20	22.584	5.166	30342	9	7.371	12.418	30414	9	3.122	17.616	30486	36	14.828	22.744
30271	25	23.544	5.314	30343	36	9.434	12.823	30415	17	6.376	17.329	30487	40	15.338	22.055
30272	17	23.866	5.473	30344	28	9.856	12.510	30416	12	12.868	17.514	30488	13	16.151	22.796
30273	8	24.314	5.582	30345	14	10.219	12.890	30417	12	13.466	17.996	30489	14	18.600	22.045
30274	8	0.300	6.268	30346	26	10.508	12.455	30418*	58	16.750	17.572	30490	14	25.268	22.642
30275	22	2.582	6.442	30347	30	11.480	12.450	30419	30	17.369	17.175	30491	46	1.026	23.323
30276	29	5.203	6.556	30348	29	11.558	12.855	30420	8	17.617	17.866	30492	36	1.448	23.514
30277	28	5.415	6.845	30349	18	12.531	12.164	30421	17	18.900	17.764	30493	20	1.718	23.136
30278	8	6.340	6.016	30350	36	16.244	12.976	30422	40	19.890	17.544	30494	14	4.825	23.374
30279	20	6.364	6.480	30351	26	16.913	12.179	30423*	44	19.903	17.664	30495	14	5.408	23.546
30280	8	6.831	6.510	30352	8	20.424	12.432	30424	8	24.325	17.814	30496	16	10.527	23.554
30281	8	7.780	6.823	30353	40	21.356	12.900	30425	34	24.630	17.842	30497	8	12.679	23.018
30282	16	22.284	6.054	30354	20	21.635	12.333	30426	38	0.144	18.045	30498	24	14.114	23.535
30283	30	24.262	6.280	30355	24	22.214	12.450	30427	36	1.224	18.007	30499	26	14.135	23.568
30284	18	24.534	6.440	30356	8	23.074	12.764	30428	16	1.469	18.652	30500*	46	15.398	23.185
30285	24	0.413	7.280	30357	10	23.493	12.448	30429	39	3.886	18.814	30501	12	15.668	23.907
30286	8	2.443	7.086	30358	10	0.496	13.804	30430	8	7.139	18.074	30502	14	18.636	23.358
30287	8	4.622	7.820	30359	14	1.286	13.207	30431*	48	11.180	18.994	30503	38	25.514	23.836
30288	30	7.816	7.971	30360	14	1.596	13.505	30432	20	11.974	18.575	30504	20	3.124	24.899
30289	17	10.410	7.206	30361	17	1.686	13.400	30433	10	11.999	18.624	30505	40	9.285	24.146
30290	28	10.844	7.128	30362	36	10.024	13.215	30434	16	13.604	18.536	30506	10	11.414	24.318
30291	8	12.730	7.243	30363	31	10.177	13.934	30435	12	16.682	18.594	30507	8	12.206	24.174
30292	29	18.156	7.814	30364	16	13.620	13.568	30436	12	16.732	18.288	30508*	76	13.224	24.462
30293	9	18.608	7.218	30365*	40	14.902	13.402	30437	36	18.446	18.826	30509	11	14.244	24.844
30294	16	21.326	7.868	30366	8	15.962	13.452	30438	8	20.682	18.866	30510	26	1.346	25.875
30295	36	21.755	7.293	30367	24	19.038	13.875	30439	17	21.708	18.292	30511	22	2.199	25.746
30296	8	5.452	8.346	30368	24	20.642	13.258	30440*	64	23.612	18.902	30512	33	3.694	25.274
30297	38	8.344	8.871	30369	8	21.554	13.218	30441	32	25.212	18.164	30513	11	4.388	25.481
30298	30	16.182	8.325	30370	16	23.876	13.073	30442	19	0.800	19.508	30514	80	4.934	25.408
30299	10	18.487	8.254	30371	42	24.982	13.674	30443	12	1.479	19.528	30515	16	6.118	25.090
30300	8	22.412	8.514	30372	22	25.639	13.504	30444*	64	2.138	19.499	30516	32	12.168	25.646
30301	8	22.800	8.127	30373*	24	2.514	14.232	30445	40	4.248	19.484	30517	12	12.179	25.126
30302	9	22.968	8.156	30374	22	2.576	14.734	30446	18	5.157	19.204	30518	28	15.194	25.213
30303	8	24.788	8.048	30375	32	3.414	14.616	30447	11	7.982	19.703	30519	12	15.900	25.826
30304	20	1.086	9.780	30376	26	5.737	14.966	30448	14	10.065	19.891	30520	12	16.720	25.354
30305	14	1.386	9.650	30377	13	6.635	14.245	30449*	44	10.826	19.270	30521	24	18.378	25.948
30306	24	1.416	9.250	30378	14	7.770	14.703	30450	38	12.708	19.107	30522	17	18.965	25.258
30307	14	2.716	9.948	30379	30	9.742	14.474	30451	19	13.537	19.498	30523	12	20.884	25.460
30308	10	7.636	9.366	30380	34	10.750	14.026	30452	21	15.800	19.360	30524	50	23.019	25.936
30309*	60	9.046	9.659	30381	14	11.166	14.636	30453	11	19.103	19.034	30525	20	23.901	25.244
30310	12	15.064	9.019	30382	8	12.026	14.282	30454	15	20.683	19.352	30526	20	25.673	25.154
30311*	64	15.808	9.475	30383	10	16.318	14.226	30455	44	21.658	19.326				
30312	12	0.277	10.745	30384	16	20.347	14.330	30456*	58	22.382	19.872				
30313	12	1.476	10.014	30385	12	21.774	14.920	30457	34	23.352	19.298				
30314	30	5.298	10.810	30386	12	24.844	14.165	30458	39	24.816	19.906				
30315*	92	9.838	10.004	30387	26	0.559	15.104	30459	8	5.964	20.298				
30316	8	11.491	10.499	30388	8	1.864	15.776	30460	26	6.843	20.435				
30317	8	19.817	10.100	30389	8	2.486	15.826	30461	22	8.864	20.022				
30318	11	20.886	10.724	30390	15	4.038	15.620	30462	48	11.416	20.546				
30319	21	22.316	10.916	30391	11	5.666	15.314	30463	11	17.246	20.706				
30320*	48	22.526	10.253	30392	14	10.325	15.482	30464	17	21.644	20.046				
30321	17	22.618	10.118	30393	24	12.611	15.813	30465*	70	24.570	20.640				
30322	16	23.100	10.825	30394	10	13.259	15.071	30466	38	1.520	21.282				
30323	20	25.314	10.315	30395	18	17.540	15.066	30467	38	5.319	21.498				
30324	18	1.369	11.248	30396	36	17.965	15.710	30468	8	6.152	21.912				
30325	16	2.729	11.580	30397	12	20.667	15.166	30469	16	6.840	21.785				
30326	10	3.094	11.562	30398	11	22.515	15.914	30470	38	8.088	21.874				
30327*	64	5.324	11.782	30399	14	22.542	15.826	30471	12	8.560	21.826				

R.A. 10^h 32^m

Plate 630; 1916 March 7.

Provisional Constants.

A B C
 -0.02580 +0.00955 +0.0810

D E F
 -0.00978 -0.02584 -0.1332

Mag. = 16.9 - 1.05√d

No.	d	x	y
30551	26	1.178	0.827
30552	10	3.028	0.634
30553	8	10.159	0.570
30554	28	12.218	0.568
30555	8	12.450	0.895
30556	21	13.323	0.480
30557*	52	21.394	0.274
30558	29	21.954	0.362
30559	8	23.962	0.162
30560	20	24.695	0.628
30561	26	25.806	0.704
30562	14	1.040	1.377
30563	8	4.232	1.278
30564	21	8.154	1.490
30565	8	8.284	1.366
30566	10	8.565	1.024
30567	30	9.736	1.143
30568	10	9.764	1.326
30569*	46	18.970	1.411
30570	13	19.000	1.898
30571*	64	19.105	1.322
30572	13	20.445	1.964
30573	17	20.774	1.293
30574*	33	22.750	1.133
30575	9	25.992	1.102
30576	8	1.430	2.852
30577	8	3.035	2.414
30578	28	3.264	2.439
30579	27	5.515	2.772
30580	22	6.285	2.273
30581	38	9.780	2.826
30582	8	14.515	2.772
30583	10	15.849	2.634
30584	8	17.744	2.912
30585	22	17.844	2.831
30586	8	18.266	2.219
30587	8	18.310	2.000
30588	16	18.525	2.242
30589	10	19.348	2.181
30590	8	20.074	2.157
30591	12	22.196	2.098
30592	8	25.238	2.370
30593	34	0.574	3.693
30594	8	1.616	3.819
30595	13	5.159	3.514
30596	40	5.656	3.878
30597	10	9.874	3.974
30598	8	11.532	3.351
30599	16	15.700	3.329
30600*	65	15.722	3.214
30601	15	18.700	3.963
30602	15	21.080	3.194
30603	8	22.220	3.821
30604	8	23.256	3.652
30605	8	25.442	3.323

															R.A. 10 ⁿ 40 ^m			
															Plate 631 ; 1916 March 7.			
															Provisional Constants.			
															A B C			
															-02584 +00253 +1930			
															D E F			
															-00272 -02587 -2269			
															Mag.=17.0-1.05√d			

30956	12	4.184	5.284	31028	20	7.705	10.139	31100	11	11.664	16.691	31172	34	3.150	23.150	31260	16	13.300	0.604
30957	20	4.618	5.134	31029	18	8.704	10.532	31101	11	12.372	16.034	31173	20	11.318	23.658	31261	14	13.318	0.713
30958	15	8.582	5.059	31030	10	15.320	10.430	31102	8	15.302	16.042	31174	19	11.696	23.342	31262	12	15.776	0.878
30959	8	12.214	5.314	31031	26	17.386	10.250	31103	20	17.334	16.314	31175	31	12.536	23.007	31263	8	17.260	0.510
30960	8	14.021	5.336	31032	31	20.902	10.692	31104	9	17.471	16.920	31176	10	14.341	23.970	31264	10	17.336	0.011
30961	11	14.414	5.364	31033	14	21.922	10.818	31105*	76	17.534	16.470	31177	30	17.554	23.060	31265	30	18.522	0.170
30962	31	15.511	5.410	31034	9	2.828	11.242	31106	9	1.684	17.605	31178	10	19.246	23.165	31266	15	22.278	0.780
30963	10	15.728	5.478	31035	32	3.208	11.634	31107	13	1.811	17.758	31179	12	19.408	23.406	31267	12	0.424	1.564
30964	32	15.759	5.760	31036	12	9.846	11.440	31108	9	2.827	17.286	31180	13	24.007	23.894	31268	10	2.515	1.502
30965	30	17.498	5.500	31037	8	10.704	11.132	31109	8	9.750	17.734	31181	16	1.792	24.040	31269	9	2.722	1.402
30966	12	20.758	5.582	31038	12	12.378	11.080	31110	29	11.221	17.230	31182	11	1.944	24.565	31270	10	3.564	1.080
30967	20	0.642	6.779	31039*	40	18.464	11.660	31111	18	11.678	17.370	31183	11	3.628	24.404	31271	10	6.700	1.060
30968	14	7.498	6.210	31040	22	19.228	11.528	31112	18	12.884	17.995	31184	9	5.218	24.698	31272	13	8.927	1.861
30969	29	8.992	6.236	31041	8	21.964	11.842	31113	10	14.406	17.208	31185	40	5.756	24.398	31273	9	11.711	1.512
30970	8	9.864	6.694	31042	18	24.128	11.305	31114	20	18.661	17.100	31186	18	5.772	24.906	31274	8	12.081	1.288
30971	14	11.902	6.104	31043	12	1.026	12.612	31115	13	20.973	17.678	31187	27	6.464	24.212	31275	8	12.700	1.530
30972	8	14.854	6.036	31044	30	1.324	12.962	31116	8	22.604	17.929	31188	15	6.622	24.300	31276	11	13.758	1.364
30973	17	16.728	6.662	31045	9	1.901	12.128	31117	12	24.666	17.922	31189	11	7.371	24.006	31277	10	14.656	1.810
30974*	43	17.450	6.814	31046	26	6.511	12.146	31118	30	2.006	18.498	31190	12	9.546	24.112	31278	9	15.200	1.410
30975	16	19.342	6.224	31047*	56	6.594	12.612	31119	8	2.906	18.985	31191	20	11.562	24.034	31279	8	16.266	1.311
30976	32	20.542	6.130	31048	13	6.930	12.720	31120	10	3.209	18.565	31192	8	15.026	24.684	31280	13	18.141	1.358
30977	14	24.184	6.918	31049	17	8.348	12.014	31121	10	9.326	18.511	31193	25	15.988	24.730	31281	10	21.445	1.115
30978	28	0.182	7.508	31050	8	9.465	12.618	31122	9	9.651	18.870	31194	20	21.090	24.860	31282	11	25.952	1.676
30979	8	2.786	7.274	31051	8	10.662	12.066	31123	24	9.918	18.761	31195	11	22.505	24.848	31283	16	2.559	2.911
30980	14	6.870	7.706	31052	11	18.626	12.782	31124	29	9.964	18.592	31196	39	25.153	24.730	31284	8	3.464	2.439
30981	8	10.085	7.470	31053	9	18.645	12.410	31125	19	15.201	18.924	31197	42	25.165	24.020	31285	8	8.424	2.226
30982	14	11.206	7.068	31054	16	18.806	12.336	31126	20	16.577	18.660	31198*	50	1.080	25.014	31286*	43	9.502	2.545
30983	15	11.324	7.735	31055	8	22.370	12.486	31127	21	16.904	18.536	31199	44	4.242	25.018	31287	11	10.106	2.412
30984	14	15.221	7.418	31056	31	22.495	12.722	31128	18	18.092	18.400	31200	18	5.508	25.386	31288	8	11.722	2.811
30985	30	15.597	7.528	31057	20	24.804	12.610	31129*	45	19.444	18.650	31201	10	9.713	25.427	31289	23	15.256	2.809
30986	27	16.412	7.870	31058*	49	24.837	12.276	31130	12	23.056	18.560	31202	11	11.646	25.903	31290	8	16.030	2.091
30987	18	20.434	7.046	31059	8	24.916	12.608	31131	20	23.508	18.830	31203	15	12.093	25.098	31291	12	17.690	2.701
30988	37	21.088	7.974	31060	41	0.832	13.614	31132*	80	11.484	19.638	31204	18	12.481	25.350	31292	10	18.036	2.442
30989	15	25.042	7.482	31061	13	4.650	13.110	31133	22	12.610	19.255	31205	22	14.899	25.040	31293	24	19.353	2.417
30990	12	25.297	7.304	31062	14	5.117	13.630	31134	20	15.581	19.129	31206	47	15.827	25.564	31294	8	22.025	2.270
30991	15	2.796	8.779	31063	25	6.338	13.140	31135	8	16.419	19.284	31207	29	22.944	25.737	31295	37	22.195	2.945
30992	18	3.684	8.783	31064	12	8.750	13.611	31136	28	19.036	19.998	31208	46	23.582	25.206	31296	10	1.473	3.635
30993	15	4.739	8.294	31065	8	10.012	13.933	31137	20	20.576	19.955	31209	11	24.925	25.029	31297	34	5.104	3.586
30994	12	4.782	8.470	31066	12	15.505	13.060	31138	23	22.422	19.520					31298	14	6.594	3.094
30995	8	4.882	8.782	31067	29	19.200	13.770	31139	31	4.720	20.968					31299	8	9.414	3.860
30996	30	5.735	8.140	31068	34	19.850	13.958	31140	10	6.794	20.664					31300	8	11.631	3.270
30997	17	6.890	8.166	31069	16	21.279	13.468	31141	10	10.064	20.865					31301*	30	12.360	3.531
30998	19	7.702	8.768	31070	13	21.919	13.259	31142	15	11.320	20.180					31302	8	15.215	3.268
30999	29	7.722	8.480	31071	8	23.592	13.220	31143	15	12.337	20.506					31303	23	17.770	3.478
31000	8	10.534	8.780	31072	20	24.146	13.498	31144	9	12.854	20.130					31304	15	25.122	3.360
31001	8	14.370	8.414	31073	35	25.536	13.387	31145	20	15.083	20.360					31305	8	1.510	4.198
31002	16	17.167	8.730	31074	12	25.754	13.697	31146	14	17.798	20.923					31306	8	3.734	4.841
31003	9	18.245	8.182	31075	12	3.700	14.665	31147	14	19.216	20.050					31307	9	9.804	4.181
31004	19	18.539	8.200	31076	12	6.198	14.322	31148	25	22.326	20.180					31308	19	10.962	4.206
31005	31	19.297	8.336	31077	11	7.850	14.358	31149	21	22.541	20.056					31309	10	11.015	4.958
31006*	39	19.550	8.026	31078	22	9.596	14.626	31150*	56	22.562	20.623					31310	13	12.400	4.598
31007	11	24.695	8.265	31079	18	18.171	14.251	31151	32	0.622	21.998					31311	10	14.390	4.067
31008	28	2.890	9.306	31080	16	20.702	14.020	31152	11	1.056	21.090					31312	8	15.860	4.578
31009	36	4.540	9.652	31081	11	21.952	14.792	31153	8	3.936	21.386					31313	8	18.263	4.187
31010	10	5.912	9.736	31082	12	22.912	14.610	31154	20	7.568	21.206					31314	26	20.954	4.284
31011	20	7.014	9.586	31083	8	23.506	14.843	31155	40	10.000	21.722					31315	22	4.411	5.914
31012	15	9.184	9.440	31084	9	23.754	14.570	31156	18	12.578	21.516					31316	14	5.994	5.420
31013	33	9.478	9.712	31085	49	0.064	15.628	31157	20	15.431	21.458					31317	8	6.665	5.616
31014	27	9.492	9.872	31086*	48	1.459	15.048	31158	11	17.650	21.661					31318	8	7.209	5.636
31015	12	12.387	9.786	31087	28	8.826	15.367	31159	21	19.765	21.130					31319	8	7.288	5.570
31016	14	13.718	9.289	31088	24	10.182	15.422	31160	18	20.428	21.157					31320	9	10.800	5.440
31017	19	14.946	9.786	31089	12	17.924	15.940	31161	8	21.896	21.202					31321	10	13.917	5.432
31018	25	17.686	9.442	31090	28	18.139	15.646	31162	12	2.986	22.636					31322	10	18.063	5.358
31019	12	18.261	9.372	31091	32	20.434	15.130	31163	39	4.775	22.304					31323	12	19.478	5.741
31020	8	21.742	9.912	31092	11	20.802	15.204	31164	14	6.296	22.051					31324	11	22.175	5.833
31021	39	22.313	9.080	31093	20	22.736	15.155	31165	17	6.366	22.759					31325	17	22	

31332	12	5.196	6.231	31404	8	11.724	11.394	31476	11	20.700	15.673	31548	11	10.370	21.880	R.A. 10 ^h 56 ^m			
31333*	47	6.160	6.804	31405	8	12.413	11.428	31477	28	23.768	15.255	31549	18	12.170	21.920				
31334	10	6.318	6.633	31406	10	13.476	11.050	31478*	45	11.560	16.514	31550*	43	18.530	21.546	Plate 613; 1916 March 4.			
31335	25	8.278	6.245	31407	8	14.611	11.384	31479	25	12.915	16.680	31551	21	19.034	21.917				
31336	10	8.516	6.494	31408	8	15.902	11.160	31480	12	13.190	16.476	31552	13	19.492	21.707	Provisional Constants.			
31337	8	8.582	6.310	31409	11	18.566	11.470	31481	10	16.476	16.364	31553*	25	20.860	21.886				
31338	8	8.612	6.526	31410	10	20.380	11.778	31482	13	16.954	16.654	31554	8	22.661	21.349	A B C			
31339*	42	9.319	6.187	31411	8	21.930	11.342	31483	23	19.690	16.700	31555	8	22.780	21.477				
31340	33	10.439	6.842	31412*	44	24.036	11.804	31484	8	20.202	16.474	31556	9	0.176	22.780	-0.02575 +0.00688 +1.799			
31341	27	11.718	6.884	31413	8	0.217	12.440	31485	8	24.532	16.686	31557	13	1.198	22.698				
31342	20	14.414	6.324	31414	25	0.340	12.676	31486	13	25.240	16.136	31558	10	2.742	22.308	D E F			
31343	9	17.515	6.650	31415	13	2.650	12.540	31487	10	25.428	16.057	31559	8	3.906	22.431				
31344	14	18.288	6.652	31416*	45	2.678	12.206	31488	8	0.509	17.878	31560	12	5.749	22.440	Mag. = 16.4 - 1.05√d			
31345	10	19.420	6.498	31417	8	2.763	12.535	31489	10	2.570	17.850	31561*	42	12.246	22.090				
31346	14	20.168	6.173	31418	8	3.504	12.546	31490	34	6.346	17.206	31562	8	12.766	22.366	No. d x y			
31347	8	21.501	6.020	31419	9	4.015	12.228	31491	21	6.832	17.180	31563	9	14.071	22.720				
31348*	44	23.426	6.044	31420	26	5.020	12.781	31492	8	7.126	17.525	31564*	39	15.346	22.811	31651	8	4.762	0.024
31349	9	25.353	6.448	31421	10	5.739	12.330	31493	16	7.427	17.622	31565	18	15.338	22.042	31652	40	5.556	0.414
31350	14	2.830	7.410	31422	8	10.882	12.470	31494*	45	8.544	17.392	31566	9	16.354	22.475	31653	12	6.374	0.093
31351	12	3.084	7.228	31423	8	11.912	12.784	31495	11	9.818	17.902	31567	10	17.683	22.626	31654	16	8.082	0.702
31352	10	8.258	7.977	31424	8	14.730	12.108	31496	8	10.603	17.662	31568	23	18.002	22.304	31655	8	10.477	0.946
31353	15	8.716	7.026	31425	8	20.931	12.022	31497	8	10.704	17.307	31569	21	20.995	22.970	31656	8	12.291	0.980
31354	9	11.117	7.400	31426	8	23.090	12.442	31498	8	12.354	17.240	31570	12	1.981	23.828	31657	12	12.808	0.167
31355	14	13.324	7.480	31427	24	24.791	12.240	31499	8	12.377	17.308	31571	45	3.136	23.942	31658	11	13.392	0.359
31356	10	13.775	7.580	31428	14	24.878	12.103	31500	8	14.148	17.576	31572	8	3.941	23.532	31659*	42	17.154	0.146
31357	8	15.098	7.483	31429	8	1.446	13.164	31501	10	16.144	17.711	31573	20	8.396	23.008	31660	14	20.405	0.514
31358	10	15.852	7.174	31430	14	2.002	13.432	31502	10	17.041	17.791	31574	20	11.037	23.827	31661	17	23.393	0.238
31359	9	16.720	7.507	31431	27	3.390	13.307	31503	8	17.540	17.158	31575	10	11.656	23.348	31662	32	25.198	0.155
31360	18	19.220	7.913	31432	10	3.612	13.614	31504	11	17.885	17.844	31576	8	12.306	23.976	31663	29	25.276	0.846
31361	11	20.840	7.295	31433	9	6.800	13.278	31505	20	23.709	17.557	31577	8	12.614	23.140	31664	15	3.494	1.833
31362	8	1.929	8.528	31434	8	7.251	13.438	31506	8	23.840	17.784	31578	8	12.936	23.834	31665	18	5.392	1.834
31363	8	2.306	8.515	31435	12	8.190	13.921	31507	21	24.670	17.030	31579	9	14.686	23.593	31666	40	5.966	1.256
31364	10	2.494	8.195	31436	8	9.585	13.671	31508	8	0.970	18.508	31580	10	15.004	23.400	31667*	74	8.218	1.724
31365	8	10.590	8.924	31437	18	10.612	13.242	31509	14	1.423	18.772	31581	8	15.618	23.174	31668	18	20.302	1.894
31366	8	15.784	8.214	31438	30	11.179	13.692	31510	8	1.893	18.074	31582	25	17.935	23.614	31669	29	24.674	1.476
31367	8	18.247	8.294	31439*	58	11.990	13.537	31511	9	10.600	18.632	31583	8	18.124	23.204	31670	13	4.337	2.998
31368	11	22.672	8.516	31440	10	13.543	13.943	31512	8	10.996	18.274	31584	12	21.780	23.450	31671	18	6.756	2.388
31369	10	23.790	8.454	31441	8	13.660	13.518	31513	8	11.440	18.875	31585	27	21.935	23.178	31672	8	11.164	2.905
31370*	42	24.273	8.630	31442	12	14.118	13.436	31514	8	11.658	18.485	31586*	60	22.174	23.841	31673	12	11.332	2.641
31371	32	0.120	9.038	31443	8	18.709	13.626	31515	10	16.798	18.341	31587	8	23.117	23.685	31674*	32	11.385	2.704
31372	8	0.876	9.325	31444	10	20.916	13.092	31516	8	17.036	18.098	31588	10	25.738	23.530	31675	16	20.106	2.312
31373	10	2.586	9.452	31445	9	21.577	13.480	31517	8	18.253	18.728	31589	9	0.490	24.800	31676	12	20.264	2.687
31374	8	3.428	9.141	31446	10	22.645	13.520	31518	8	19.622	18.470	31590	10	2.912	24.954	31677	12	21.794	2.969
31375	12	7.830	9.356	31447*	46	23.342	13.865	31519	14	24.046	18.761	31591	40	3.134	24.652	31678	26	23.818	2.588
31376	8	7.793	9.895	31448	9	0.780	14.559	31520	18	0.344	19.473	31592	14	4.212	24.881	31679	15	24.002	2.748
31377*	98	7.980	9.998	31449	8	1.378	14.785	31521	10	6.356	19.246	31593	10	4.414	24.464	31680	18	2.686	3.528
31378	18	9.635	9.568	31450	9	1.623	14.510	31522	8	8.180	19.905	31594	8	7.518	24.275	31681	34	8.223	3.972
31379	22	12.164	9.238	31451	10	4.335	14.470	31523*	33	8.315	19.060	31595	9	8.521	24.066	31682	20	12.656	3.744
31380	11	15.734	9.607	31452	8	5.453	14.083	31524	8	9.189	19.525	31596	10	9.144	24.676	31683	14	12.746	3.529
31381	8	17.040	9.100	31453	10	8.196	14.776	31525*	42	14.998	19.398	31597	59	13.048	24.347	31684	22	21.468	3.757
31382	10	17.330	9.998	31454	10	8.346	14.377	31526	10	15.500	19.658	31598	8	15.314	24.335	31685	22	22.335	3.837
31383	9	17.470	9.556	31455	9	8.655	14.562	31527*	41	16.841	19.993	31599	10	18.230	24.756	31686	9	10.817	4.414
31384	24	18.820	9.150	31456	10	9.055	14.183	31528	18	18.696	19.115	31600	21	0.938	25.685	31687*	36	11.401	4.015
31385	17	21.286	9.290	31457	8	9.516	14.942	31529	10	19.040	19.322	31601	44	1.568	25.146	31688	12	15.000	4.264
31386	8	23.230	9.143	31458	10	10.243	14.317	31530	8	19.124	19.420	31602	15	4.276	25.636	31689	12	18.642	4.502
31387	14	24.426	9.790	31459	22	11.560	14.900	31531	8	23.339	19.010	31603	8	4.556	25.236	31690	26	19.155	4.966
31388	59	25.450	9.442	31460	20	19.104	14.604	31532	21	0.256	20.138	31604	8	5.412	25.203	31691	12	20.104	4.294
31389	59	25.880	9.608	31461	8	19.898	14.200	31533	16	0.468	20.010	31605	10	5.450	25.212	31692	12	23.002	4.342
31390	33	4.384	10.853	31462	11	25.410	14.600	31534	60	0.493	20.576	31606	9	5.670	25.802	31693	18	0.372	5.606
31391	10	5.327	10.796	31463	15	0.612	15.105	31535	9	4.990	20.880	31607	8	5.966	25.064	31694	9	1.778	5.292
31392	10	5.475	10.034	31464	10	1.284	15.839	31536	10	5.425	20.040	31608	36	8.193	25.964	31695	10	10.000	5.422
31393	8	6.090	10.184	31465	16	3.696	15.302	31537	8	6.115	20.405	31609	16	9.338	25.664	31696	19	11.896	5.804
31394	17	7.700	10.678	31466	18	5.906	15.620	31538	8	14.191	20.730	31610	11	11.567	25.549	31697	19	13.432	5.064
31395	10	7.738	10.569	31467	8	6.226	15.176	31539	13	14.856	20.497	31611	8	12.224	25.144	31698	18	13.532	5.014
31396	8	8.219	10.846	31468	8														

31706	28	9.806	6.618	31778	8	22.475	11.380	31850	8	15.364	17.955	31922	54	0.032	24.049	31975	12	20.334	1.706
31707	11	12.635	6.054	31779	11	24.364	11.704	31851	10	15.495	17.032	31923	10	3.948	24.815	31976	9	20.533	1.481
31708	20	12.713	6.358	31780	18	24.944	11.505	31852	20	21.686	17.854	31924	23	6.244	24.644	31977	9	22.055	1.707
31709	20	16.353	6.990	31781	19	25.200	11.154	31853	19	23.398	17.744	31925	9	6.662	24.936	31978	20	22.506	1.098
31710	18	16.383	6.444	31782	22	2.483	12.414	31854	9	25.426	17.165	31926*	66	7.577	24.900	31979	11	24.525	1.786
31711	17	16.444	6.096	31783	15	2.568	12.275	31855	16	1.829	18.942	31927	12	10.272	24.107	31980	11	5.175	2.532
31712	12	16.474	6.828	31784	8	3.048	12.454	31856	16	8.225	18.634	31928	32	11.234	24.908	31981	10	11.005	2.401
31713	8	17.594	6.823	31785	8	3.346	12.362	31857	9	10.286	18.796	31929	11	13.625	24.126	31982	14	11.680	2.146
31714	8	17.867	6.336	31786	14	5.049	12.354	31858	8	11.489	18.529	31930	36	14.016	24.172	31983	25	11.946	2.407
31715	34	21.342	6.274	31787	18	5.465	12.966	31859	17	15.202	18.592	31931	16	14.092	24.906	31984	10	13.830	2.346
31716	17	23.787	6.502	31788	22	6.211	12.322	31860	19	21.210	18.391	31932	17	15.850	24.012	31985	8	16.903	2.465
31717	36	24.549	6.546	31789	12	6.306	12.985	31861	8	22.805	18.056	31933	9	20.774	24.634	31986*	35	18.286	2.785
31718	13	5.936	7.032	31790	8	7.794	12.314	31862	14	22.822	18.616	31934	16	1.575	25.404	31987	8	20.068	2.823
31719	16	6.273	7.168	31791	8	10.164	12.770	31863	9	5.126	19.994	31935	24	7.688	25.507	31988	8	24.586	2.360
31720	12	6.580	7.705	31792	8	14.968	12.324	31864	10	8.015	19.875	31936	10	7.855	25.938	31989	8	1.299	3.175
31721	16	6.950	7.001	31793	30	19.764	12.956	31865	9	8.198	19.442	31937	19	11.536	25.566	31990	8	1.303	3.224
31722	23	9.236	7.774	31794	10	24.075	12.194	31866	8	10.792	19.676	31938	8	12.247	25.448	31991	20	1.455	3.063
31723	13	10.947	7.286	31795	12	0.355	13.724	31867	8	17.186	19.214	31939	8	12.435	25.965	31992	12	1.640	3.223
31724	20	10.982	7.728	31796	9	4.396	13.114	31868	10	18.242	19.028	31940	9	13.675	25.857	31993	10	7.750	3.914
31725	12	11.966	7.046	31797	8	6.176	13.608	31869	8	22.244	19.000	31941*	82	21.276	25.327	31994	8	8.734	3.797
31726	19	17.163	7.845	31798	20	10.394	13.222	31870	8	23.471	19.686	31942	23	22.738	25.480	31995	10	11.038	3.882
31727	8	17.848	7.789	31799	12	10.436	13.174	31871	16	23.698	19.086	31943*	44	22.794	25.494	31996	14	12.764	3.703
31728	21	17.936	7.266	31800	16	11.191	13.875	31872	14	25.904	19.862					31997	12	19.219	3.207
31729	14	20.945	7.484	31801	27	11.471	13.094	31873*	36	3.997	20.186					31998	9	19.320	3.278
31730	34	22.762	7.710	31802	12	12.256	13.132	31874	18	5.399	20.104					31999	10	22.026	3.597
31731	11	0.309	8.720	31803	19	16.267	13.358	31875	9	6.782	20.432					32000	23	23.259	3.396
31732	12	1.428	8.644	31804	12	17.806	13.144	31876	16	9.085	20.207					32001*	37	23.448	3.919
31733*	40	1.910	8.810	31805	24	18.305	13.238	31877	15	11.865	20.194					32002	8	0.652	4.820
31734	12	5.048	8.277	31806	18	22.358	13.514	31878	9	12.500	20.646					32003*	33	8.566	4.094
31735	14	5.211	8.795	31807	11	23.568	13.715	31879	18	12.917	20.369					32004	21	11.987	4.416
31736	8	14.316	8.651	31808	9	24.062	13.677	31880	9	14.922	20.626					32005*	26	12.260	4.654
31737	11	14.385	8.508	31809	12	25.152	13.463	31881	12	17.165	20.885					32006	12	14.785	4.292
31738	11	14.392	8.486	31810*	42	1.054	14.062	31882	17	21.724	20.101					32007	8	21.770	4.573
31739	26	16.914	8.274	31811	11	3.138	14.765	31883	14	25.800	20.981					32008	8	3.171	5.482
31740	30	19.722	8.267	31812	18	4.392	14.505	31884	8	0.607	21.676					32009	10	5.454	5.556
31741	8	21.692	8.914	31813	14	4.722	14.494	31885	9	7.159	21.488					32010	11	8.244	5.774
31742	16	2.082	9.968	31814	10	5.663	14.007	31886	24	10.546	21.389					32011	8	10.892	5.325
31743	8	2.868	9.168	31815	9	16.391	14.784	31887*	62	12.258	21.812					32012	9	14.708	5.182
31744*	56	3.099	9.606	31816	24	17.618	14.596	31888	16	12.550	21.975					32013	9	15.000	5.546
31745*	54	3.528	9.765	31817	14	19.235	14.364	31889	36	13.256	21.817					32014	8	20.100	5.366
31746	9	3.757	9.993	31818	20	21.396	14.066	31890	11	17.342	21.820					32015	27	20.782	5.085
31747	16	6.204	9.243	31819	12	25.044	14.052	31891	15	17.736	21.344					32016*	49	23.046	5.140
31748	13	7.424	9.274	31820	31	1.503	15.443	31892	12	20.406	21.406					32017	8	1.078	6.826
31749	13	7.570	9.106	31821	19	9.526	15.686	31893	15	20.839	21.729					32018	12	1.450	6.975
31750	14	8.292	9.975	31822	15	10.576	15.415	31894	17	20.960	21.825					32019	8	2.618	6.324
31751*	125	9.830	9.646	31823	11	12.349	15.925	31895	25	21.012	21.545					32020	8	11.616	6.860
31752	14	10.465	9.634	31824	20	14.420	15.842	31896	34	22.380	21.145					32021*	24	14.205	6.144
31753*	38	11.700	9.905	31825	8	16.104	15.346	31897	17	24.276	21.275					32022	8	14.924	6.972
31754*	36	11.914	9.895	31826	14	21.544	15.934	31898	8	4.078	22.625					32023	17	16.236	6.286
31755	8	12.387	9.823	31827	8	24.641	15.303	31899	8	5.194	22.364					32024	22	2.210	7.015
31756	14	13.032	9.790	31828	8	2.291	16.862	31900*	42	5.664	22.133					32025	11	4.471	7.732
31757	8	15.012	9.288	31829	16	2.990	16.302	31901	12	6.164	22.175					32026	16	5.026	7.385
31758	8	15.365	9.604	31830	12	3.178	16.216	31902	13	7.458	22.432					32027	20	9.440	7.932
31759	8	16.734	9.594	31831	23	7.034	16.503	31903	9	11.835	22.928					32028	8	10.114	7.522
31760	20	17.308	9.976	31832	16	9.464	16.460	31904	36	16.206	22.922					32029	8	11.049	7.114
31761	36	18.746	9.738	31833	9	12.754	16.800	31905	16	17.915	22.034					32030*	44	11.499	7.732
31762	12	18.923	9.218	31834	8	12.927	16.429	31906	18	20.905	22.893					32031	10	12.782	7.180
31763	17	20.015	9.106	31835	17	17.005	16.694	31907	16	25.555	22.066					32032	8	13.660	7.154
31764	17	23.676	9.650	31836	17	19.228	16.326	31908	8	3.598	23.685					32033	10	22.550	7.770
31765	9	3.124	10.304	31837	15	21.612	16.656	31909	19	7.094	23.985					32034	8	23.164	7.522
31766	11	6.437	10.716	31838	16	21.828	16.784	31910	36	7.948	23.930					32035	8	24.346	7.190
31767*	46	12.386	10.385	31839	8	22.244	16.467	31911*	53	8.466	23.448					32036	9	24.934	7.036
31768	16	17.397	10.986	31840	14	22.734	16.772	31912	16	10.880	23.845					32037	21	25.786	7.464
31769	16	18.698	10.984	31841	18	1.475	17.745	31913	23	11.101	23.302					32038	28	0.428	8.192
31770	15	19.002	10.801	31842	8	1.614	17.971	31914	8	12.401	23.682					32039	8	1.545	8.323
31771	15	21.058	10.198	31843	16	2.432	17.206	31915	13	14.186	23.551					32040	8	5.512	8.888
31772*	42	1.720	11.989	31844	23	4.542	17.307	31916	34	16.898	23.337					32041	8	8.015	8.376
31773	8	2.429	11.975	31845	32	4.805	17.874	31917	8	17.516	23.973					32042	8	8.984	8.256
31774</																			

32047*	54	24.696	8.243	32119	8	17.384	15.388	32191	20	25.468	19.368	32263	8	15.882	24.858	32327	25	0.871	3.375
32048	12	4.337	9.348	32120	10	18.348	15.068	32192	8	1.218	20.164	32264	11	16.292	24.116	32328*	33	1.063	3.895
32049	8	6.525	9.298	32121	13	18.370	15.955	32193	10	3.658	20.321	32265	11	16.370	24.988	32329	17	5.666	3.983
32050	13	7.696	9.527	32122	8	18.698	15.148	32194	8	3.577	20.270	32266	8	18.810	24.775	32330	8	19.495	3.711
32051	18	1.358	10.125	32123	8	18.980	15.944	32195	8	4.827	20.236	32267	21	20.084	24.705	32331	8	21.764	3.610
32052	8	2.746	10.671	32124	10	20.252	15.150	32196	10	5.095	20.997	32268	10	20.270	24.086	32332	13	4.307	4.908
32053	10	5.318	10.760	32125	10	21.871	15.811	32197	13	6.134	20.424	32269	8	21.823	24.568	32333	10	6.882	4.408
32054*	33	8.090	10.857	32126	20	21.965	15.786	32198	11	6.902	20.800	32270	13	22.386	24.840	32334	8	7.384	4.588
32055	14	12.510	10.141	32127	10	4.835	16.233	32199	23	10.034	20.556	32271	8	22.692	24.950	32335	12	8.337	4.926
32056	8	16.300	10.378	32128	15	5.030	16.574	32200	8	10.580	20.490	32272	14	0.532	25.960	32336	23	11.340	4.784
32057	8	0.167	11.860	32129	8	5.898	16.604	32201	10	11.376	20.602	32273	40	0.585	25.976	32337	20	13.486	4.234
32058	16	2.640	11.972	32130*	22	7.024	16.626	32202*	32	12.286	20.542	32274	8	3.503	25.244	32338	8	13.809	4.816
32059	15	2.894	11.619	32131	10	7.808	16.685	32203	14	12.890	20.133	32275	15	4.860	25.110	32339	20	17.843	4.956
32060	10	4.340	11.971	32132	12	8.258	16.565	32204	9	14.584	20.164	32276	10	7.185	25.335	32340	19	23.352	4.040
32061	26	6.440	11.137	32133	10	10.240	16.180	32205	8	15.648	20.038	32277	10	7.910	25.955	32341	45	0.670	5.120
32062	14	10.426	11.154	32134	11	12.375	16.303	32206	8	17.188	20.760	32278	11	8.740	25.365	32342	15	6.272	5.218
32063	14	12.796	11.814	32135*	34	13.523	16.402	32207	8	18.246	20.070	32279	9	10.645	25.888	32343	20	16.232	5.926
32064	10	14.244	11.446	32136	18	16.069	16.302	32208	21	21.430	20.116	32280	13	12.626	25.146	32344	20	17.070	5.840
32065	33	15.920	11.382	32137	13	20.095	16.224	32209	9	22.430	20.215	32281	15	16.030	25.687	32345	8	19.398	5.812
32066	11	16.960	11.327	32138	10	21.256	16.610	32210	10	22.705	20.294	32282	10	16.719	25.722	32346*	34	20.802	5.134
32067*	26	16.965	11.994	32139	8	25.404	16.198	32211	10	24.818	20.929	32283	10	19.794	25.412	32347	8	24.336	5.462
32068	9	19.726	11.910	32140	13	0.462	17.252	32212	29	0.141	21.628	32284	8	21.844	25.830	32348	10	7.774	6.235
32069	8	21.210	11.952	32141	9	2.774	17.465	32213	12	2.036	21.746					32349	18	11.958	6.070
32070	8	23.364	11.193	32142	8	2.892	17.373	32214	10	3.560	21.440					32350	29	15.241	6.092
32071	18	24.082	11.012	32143	10	3.160	17.626	32215	17	4.568	21.686					32351	11	16.130	6.661
32072	23	24.371	11.200	32144	8	3.776	17.888	32216	8	4.743	21.758					32352	8	24.714	6.408
32073	12	24.405	11.144	32145	8	4.086	17.441	32217	20	8.882	21.513					32353	8	0.205	7.754
32074	10	1.775	12.664	32146	10	6.284	17.592	32218	10	13.150	21.674					32354	8	2.580	7.002
32075	10	2.060	12.172	32147	10	6.646	17.935	32219	10	13.823	21.082					32355	20	3.440	7.418
32076	8	13.333	12.046	32148	9	6.860	17.545	32220	8	14.344	21.556					32356	21	8.186	7.776
32077	9	13.921	12.266	32149	18	8.198	17.626	32221	19	14.510	21.521					32357	21	8.250	7.767
32078	10	13.965	12.584	32150	10	8.706	17.016	32222	21	16.190	21.267					32358	14	9.958	7.850
32079*	93	22.752	12.201	32151	14	11.880	17.756	32223	8	16.268	21.524					32359	8	11.284	7.268
32080	14	0.065	13.995	32152	8	13.492	17.797	32224	9	18.291	21.600					32360	30	24.417	7.133
32081	10	2.860	13.925	32153	8	18.220	17.545	32225	8	21.774	21.566					32361*	58	2.350	8.209
32082	8	3.857	13.735	32154	9	18.235	17.572	32226	10	24.216	21.530					32362	10	19.275	8.500
32083	8	5.200	13.486	32155	19	18.438	17.668	32227	8	1.386	22.190					32363	16	10.709	9.798
32084	12	6.325	13.098	32156	8	20.622	17.600	32228	12	3.325	22.526					32364	8	11.956	9.444
32085	8	7.664	13.778	32157	21	20.636	17.246	32229	10	5.117	22.897					32365	9	12.823	9.420
32086	8	9.472	13.819	32158	8	20.844	17.800	32230	10	5.210	22.014					32366	11	15.250	9.176
32087	8	11.332	13.258	32159*	40	23.053	17.874	32231	25	7.598	22.980					32367	20	21.208	9.978
32088	15	15.092	13.346	32160	8	0.546	18.540	32232	8	7.962	22.894					32368	14	1.766	10.984
32089	10	16.938	13.890	32161	20	1.135	18.219	32233	8	10.825	22.878					32369	11	7.044	10.622
32090	21	18.768	13.223	32162	8	3.940	18.437	32234	8	11.027	22.706					32370*	40	18.160	10.472
32091	10	25.582	13.328	32163	20	4.462	18.188	32235*	64	12.934	22.960					32371	8	18.195	10.008
32092	10	1.278	14.192	32164	11	8.214	18.026	32236	16	14.129	22.096					32372	21	2.059	11.170
32093	10	1.773	14.148	32165	14	11.948	18.102	32237	10	14.815	22.775					32373	8	2.094	11.111
32094	10	2.756	14.516	32166	13	13.026	18.272	32238	20	18.020	22.692					32374	28	5.310	11.670
32095	24	3.731	14.137	32167	18	13.296	18.062	32239	10	21.520	22.622					32375	28	12.265	11.264
32096	18	4.206	14.622	32168	21	14.283	18.094	32240	8	21.602	22.389					32376	8	14.567	11.499
32097	8	4.740	14.445	32169	8	14.415	18.785	32241	8	23.306	22.130					32377	110	0.436	12.187
32098	8	9.282	14.513	32170	8	14.982	18.949	32242	9	3.424	23.204					32378	15	8.046	12.862
32099	8	9.372	14.676	32171	13	15.789	18.114	32243	20	6.984	23.122					32379	9	9.126	12.848
32100	13	15.260	14.500	32172	14	18.254	18.805	32244	8	7.252	23.742					32380*	41	18.822	12.236
32101	11	15.450	14.325	32173	18	18.560	18.566	32245	8	11.425	23.052					32381	14	21.036	12.375
32102	14	15.770	14.895	32174	8	22.252	18.694	32246	8	12.174	23.112					32382	19	22.725	12.928
32103	8	17.304	14.464	32175	9	22.571	18.985	32247	27	13.486	23.968					32383	8	3.291	13.286
32104*	20	17.431	14.064	32176	12	0.565	19.098	32248	8	13.360	23.074					32384	19	5.810	13.724
32105	8	18.247	14.525	32177	12	1.444	19.561	32249	22	15.927	23.021					32385	8	17.802	13.214
32106*	35	20.258	14.008	32178	10	4.056	19.180	32250	10	18.100	23.148					32386	21	22.444	13.328
32107*	22	20.511	14.006	32179	27	4.814	19.096	32251	12	19.035	23.500					32387*	49	0.824	14.250
32108*	46	23.110	14.268	32180	9	5.125	19.842	32252	30	19.830	23.553					32388	10	1.003	14.806
32109	15	23.280	14.826	32181	8	7.024	19.735	32253	8	19.866	23.242					32389	8	1.430	14.240
32110	11	23.714	14.264	32182	8	8.248	19.243	32254	10	21.715	23.020					32390	14	4.924	14.276
32111	9	2.363	15.770	32183	8	9.392	19.479	32255	13	25.221	23.296					32391	8	7.984	14.712
32112	16	3.766	15.619	32184	11	9.540	19.490	32256	25	1.861	24.242					32392	8	12.556	14.210
32113	15	5.370	15.623	32185	11	10.140	19.168	32257	8	3.786	24.490					32393	16	16.626	14.066
32114	26	5.600	15.310	32186	8	11.113	19.522	32258	8	7.052	24.930					32394			

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32773	40	20.824	1.540	32845	8	0.973	10.744	32917	14	11.710	20.590	R.A. 11 ^h 36 ^m Plate 650 ; 1916 March 27. Provisional Constants. A B C -0.2582 +.00134 +.2590 D E F -0.0164 -0.2603 -0.1460 Mag.=16.0-1.05√d	33056	8	7.463	9.055
32774	15	0.154	2.748	32846*	70	3.618	10.667	32918	15	13.383	20.726		33057	8	8.610	9.923
32775	12	3.958	2.280	32847	16	3.895	10.357	32919	10	22.070	20.822		33058	20	19.252	9.798
32776	10	13.146	2.596	32848	8	15.193	10.618	32920	26	22.624	20.740		33059	8	22.150	9.651
32777	19	17.128	2.205	32849	8	19.606	10.076	32921*	46	23.332	20.716	33060	8	0.733	10.586	
32778	36	24.126	2.654	32850	11	22.894	10.306	32922	20	2.170	21.624	33061	15	1.191	10.020	
32779*	60	4.267	3.128	32851	14	24.490	10.949	32923	24	5.159	21.418	33062	12	2.528	10.163	
32780	8	5.406	3.323	32852	24	24.850	10.580	32924	37	13.250	21.978	33063	10	2.691	10.833	
32781*	44	5.444	3.059	32853	16	1.048	11.132	32925	8	16.746	21.576	33064	10	4.446	10.384	
32782	32	6.916	3.640	32854	36	4.542	11.623	32926	28	21.515	21.150	33065*	40	11.823	10.085	
32783*	32	8.226	3.242	32855*	39	18.433	11.204	32927	31	22.272	21.250	33066	20	21.875	10.414	
32784	10	11.156	3.859	32856	14	20.850	11.410	32928	13	24.502	21.651	33067*	106	23.232	10.111	
32785	14	15.864	3.560	32857	14	24.218	11.215	32929	14	0.735	22.251	33068	8	25.846	10.076	
32786	8	23.751	3.671	32858	8	25.219	11.980	32930	17	1.388	22.353	33069	8	2.070	11.475	
32787	20	1.598	4.930	32859	35	0.614	12.309	32931	8	1.980	22.470	33070	8	2.338	11.207	
32788	8	1.886	4.924	32860	12	1.468	12.821	32932	8	4.935	22.793	33071	8	5.071	11.990	
32789*	68	4.375	4.488	32861	11	4.176	12.997	32933	8	9.364	22.394	33072	11	6.638	11.474	
32790	9	8.231	4.636	32862	8	13.646	12.858	32934	16	12.028	22.521	33073	13	8.952	11.451	
32791	22	8.370	4.074	32863	34	15.679	12.210	32935	30	13.753	22.274	33074*	20	14.445	11.136	
32792	30	9.376	4.038	32864	9	18.806	12.000	32936	8	14.802	22.678	33075*	42	17.636	11.332	
32793	19	10.818	4.188	32865*	46	18.870	12.800	32937	10	17.560	22.701	33076	25	20.624	11.414	
32794	31	13.187	4.697	32866	8	21.548	12.842	32938	15	23.243	22.964	33077	20	22.408	11.415	
32795	10	14.144	4.105	32867	8	12.451	13.263	32939	11	23.442	22.025	33078	20	5.062	12.229	
32796	12	16.506	4.365	32868	8	13.049	13.394	32940	14	24.252	22.732	33079	11	5.460	12.506	
32797*	44	20.376	4.956	32869	8	14.740	13.964	32941	34	24.820	22.371	33080	13	5.724	12.754	
32798	19	21.726	4.000	32870	24	22.154	13.694	32942	8	0.664	23.320	33081*	42	20.900	12.600	
32799	12	24.444	4.818	32871	10	0.190	14.690	32943	21	1.083	23.083	33082	13	24.962	12.895	
32800	19	24.957	4.776	32872	8	2.861	14.838	32944	17	11.736	23.870	33083	15	0.035	13.978	
32801	21	1.096	5.722	32873*	43	9.829	14.792	32945	31	13.458	23.169	33084	9	6.485	13.961	
32802	8	3.306	5.468	32874	12	10.504	14.439	32946*	37	19.698	23.742	33085	26	17.455	13.344	
32803	29	3.448	5.665	32875	8	10.524	14.319	32947	13	22.309	23.290	33086	9	18.600	13.531	
32804	11	5.979	5.230	32876	8	11.856	14.277	32948	16	3.590	24.000	33087	8	20.084	13.386	
32805	9	7.721	5.624	32877	16	12.426	14.082	32949	34	4.034	24.777	33088	22	24.940	13.532	
32806	8	12.465	5.119	32878*	42	13.180	14.190	32950	30	5.094	24.462	33089	12	4.720	14.832	
32807	8	12.742	5.325	32879*	38	15.666	14.950	32951	8	9.590	24.993	33090	17	5.708	14.368	
32808	13	14.945	5.220	32880	30	21.051	14.028	32952	8	10.750	24.340	33091	8	7.004	14.926	
32809	10	17.338	5.482	32881	8	22.954	14.976	32953	20	11.124	24.087	33092*	36	9.972	14.182	
32810	10	18.123	5.972	32882	8	1.816	15.167	32954	8	11.698	24.539	33093*	20	11.332	14.832	
32811	8	1.324	6.500	32883	8	4.674	15.640	32955	10	11.716	24.900	33094	16	11.586	14.332	
32812	10	2.358	6.844	32884	16	6.863	15.579	32956	20	11.717	24.541	33095	15	14.398	14.866	
32813	8	3.190	6.150	32885	8	7.819	15.654	32957	21	20.700	24.148	33096	11	23.164	14.169	
32814	29	3.960	6.722	32886*	60	11.798	15.988	32958	15	22.204	24.949	33097	11	25.894	14.502	
32815	8	5.944	6.206	32887	8	17.319	15.908	32959	8	22.424	24.271	33098	10	1.571	15.414	
32816	34	15.558	6.259	32888	8	18.653	15.605	32960	14	24.172	24.180	33099	9	9.894	15.160	
32817	37	16.516	6.247	32889	8	18.721	15.241	32961	8	1.016	25.712	33100	9	15.797	15.633	
32818	8	22.086	6.829	32890	19	21.958	15.181	32962	12	1.821	25.828	33101	8	22.551	15.153	
32819	16	1.300	7.065	32891	19	23.672	15.144	32963	11	2.700	25.200	33102	12	0.142	16.838	
32820	17	5.070	7.992	32892	9	25.202	15.931	32964	29	3.514	25.894	33103	16	5.066	16.715	
32821*	41	5.135	7.966	32893	10	1.002	16.914	32965	25	4.204	25.380	33104*	35	5.231	16.888	
32822	10	7.329	7.720	32894	19	8.118	16.490	32966	37	5.466	25.667	33105	8	12.284	16.991	
32823	10	10.180	7.975	32895	8	10.579	16.334	32967	42	6.124	25.289	33106	8	21.758	16.269	
32824	21	12.384	7.474	32896	13	19.034	16.324	32968	13	20.742	25.388	33107*	42	24.184	16.453	
32825	10	12.880	7.614	32897	15	19.292	16.731	32969	38	21.085	25.023	33108*	35	0.936	17.435	
32826	14	14.285	7.920	32898	14	20.678	16.822					33109	12	7.273	17.033	
32827	21	21.296	7.606	32899	20	21.390	16.473					33110	8	18.687	17.522	
32828	38	23.124	7.525	32900	26	22.226	16.554					33111	22	21.735	17.764	
32829	8	25.049	7.858	32901	10	2.080	17.384					33112	8	25.245	17.337	
32830*	59	9.684	8.613	32902	8	7.296	17.880					33113	11	5.620	18.315	
32831	10	10.980	8.501	32903	33	8.694	17.422					33114	12	6.674	18.147	
32832	31	13.662	8.406	32904	15	9.469	17.636					33115*	23	9.706	18.976	
32833	11	15.566	8.332	32905	40	10.346	17.463					33116				

33128	8	2.480	21.906	33210	34	16.285	1.044	33282	14	7.128	9.174	33354	9	25.636	15.566	33426	8	25.913	20.788
33129	8	5.120	21.744	33211	8	20.573	1.714	33283	23	10.244	9.148	33355*	44	1.916	16.146	33427	8	1.674	21.728
33130	8	21.498	21.519	33212	9	21.550	1.028	33284	34	12.906	9.336	33356	8	4.058	16.825	33428	21	3.246	21.500
33131	13	25.440	21.824	33213	33	0.694	2.762	33285	41	14.453	9.938	33357	26	5.056	16.981	33429	9	11.865	21.647
33132	8	1.424	22.295	33214	35	2.058	2.181	33286	8	18.210	9.794	33358*	38	6.817	16.346	33430	10	12.052	21.174
33133	10	2.241	22.988	33215	8	3.672	2.358	33287*	66	22.366	9.569	33359	9	7.085	16.209	33431	8	23.136	21.229
33134*	18	2.807	22.623	33216	8	11.188	2.097	33288	15	6.754	10.850	33360*	40	8.324	16.588	33432	24	24.845	21.668
33135	49	5.215	22.226	33217	17	11.422	2.702	33289*	80	8.140	10.108	33361	8	15.244	16.672	33433	8	0.153	22.177
33136	8	8.850	22.358	33218	26	14.872	2.156	33290	37	8.954	10.581	33362	17	15.427	16.258	33434	8	1.786	22.285
33137*	9	11.627	22.478	33219*	74	16.799	2.605	33291	27	13.096	10.700	33363	8	15.522	16.296	33435*	78	6.410	22.876
33138	40	15.458	22.906	33220	36	19.594	2.157	33292*	46	14.124	10.136	33364	40	16.524	16.123	33436	8	8.778	22.134
33139	11	19.833	22.775	33221	40	19.768	2.001	33293	19	14.386	10.586	33365	40	18.564	16.900	33437*	48	9.278	22.056
33140	8	22.342	22.464	33222	24	20.529	2.153	33294	8	15.394	10.540	33366	40	19.366	16.834	33438	8	11.198	22.986
33141	8	23.869	22.033	33223	16	22.174	2.886	33295	8	19.326	10.067	33367	25	20.496	16.826	33439	12	11.265	22.679
33142	9	0.310	23.575	33224*	43	22.255	2.253	33296	35	20.306	10.112	33368	23	21.462	16.256	33440	27	16.174	22.156
33143	9	1.237	23.232	33225	26	23.479	2.644	33297	18	21.331	10.944	33369	12	21.842	16.454	33441	36	20.216	22.124
33144*	9	7.000	23.259	33226	36	1.598	3.430	33298	32	24.396	10.136	33370	11	22.136	16.236	33442	30	23.965	22.294
33145	36	9.164	23.814	33227	40	8.362	3.321	33299	24	25.854	10.092	33371	15	25.456	16.564	33443	16	24.406	22.698
33146*	11	10.485	23.002	33228	27	11.248	3.427	33300	41	0.076	11.132	33372	8	0.954	17.508	33444	14	1.976	23.290
33147	44	11.362	23.064	33229	8	11.544	3.610	33301	9	5.546	11.956	33373	8	3.624	17.722	33445	23	5.941	23.356
33148	9	15.814	23.160	33230	34	12.138	3.171	33302	27	10.971	11.504	33374*	70	6.192	17.465	33446	40	6.286	23.581
33149	8	17.438	23.758	33231	11	12.684	3.678	33303	8	12.580	11.799	33375	32	8.859	17.454	33447	31	8.488	23.644
33150	10	21.600	23.842	33232	14	22.474	3.756	33304*	56	12.880	11.600	33376	8	10.984	17.524	33448	14	8.656	23.244
33151	8	2.180	24.437	33233	40	22.872	3.856	33305	20	16.480	11.034	33377	37	12.682	17.450	33449*	54	9.294	23.160
33152	26	6.278	24.272	33234	40	3.430	4.088	33306	23	22.029	11.544	33378	17	13.330	17.121	33450	11	9.753	23.882
33153	22	14.345	24.720	33235	25	4.764	4.094	33307	16	24.646	11.673	33379	8	14.555	17.616	33451	24	19.134	23.824
33154	9	18.243	24.052	33236	15	5.908	4.481	33308	8	2.107	12.756	33380	22	15.529	17.730	33452	22	0.700	24.783
33155	17	19.112	24.434	33237*	44	6.350	4.076	33309	37	2.652	12.582	33381	21	16.684	17.905	33453	17	0.916	24.114
33156	8	19.712	24.124	33238	8	15.422	4.471	33310	11	6.314	12.230	33382*	42	18.850	17.122	33454	8	11.182	24.165
33157	9	23.080	24.410	33239	10	16.276	4.564	33311	8	8.148	12.228	33383	13	18.914	17.464	33455	35	13.750	24.562
33158	10	0.222	25.232	33240	9	16.334	4.715	33312	40	8.825	12.284	33384	39	20.875	17.600	33456	32	14.212	24.662
33159	8	3.383	25.196	33241	34	18.414	4.900	33313	8	10.092	12.978	33385	27	22.676	17.400	33457	9	15.476	24.340
33160	9	11.214	25.846	33242	33	24.716	4.850	33314	18	10.934	12.394	33386	9	2.010	18.755	33458*	78	16.215	24.418
33161	15	11.254	25.066	33243	12	0.078	5.954	33315	11	17.324	12.664	33387	8	2.148	18.892	33459	15	21.188	24.415
33162	9	11.816	25.633	33244	24	4.354	5.890	33316	15	19.752	12.416	33388	28	4.550	18.630	33460	44	21.298	24.736
33163	8	12.837	25.572	33245	14	4.555	5.704	33317	36	24.918	12.230	33389	38	6.564	18.208	33461	31	22.844	24.004
33164	10	15.455	25.054	33246	8	6.706	5.133	33318	32	0.866	13.877	33390	8	8.422	18.786	33462	8	22.848	24.352
33165	14	15.795	25.888	33247	18	7.646	5.086	33319	8	1.445	13.784	33391	24	8.862	18.441	33463	8	23.900	24.482
33166	9	17.974	25.844	33248	41	10.090	5.024	33320	40	2.639	13.216	33392	35	9.474	18.614	33464	9	5.264	25.449
33167	11	22.856	25.074	33249	10	3.082	6.142	33321	11	8.575	13.600	33393	24	11.355	18.974	33465	30	6.494	25.228
				33250	35	4.080	6.016	33322	10	9.334	13.555	33394	8	12.476	18.638	33466	8	10.538	25.196
				33251	29	6.778	6.374	33323	10	12.624	13.554	33395*	40	13.012	18.424	33467	12	14.210	25.052
				33252	14	7.815	6.838	33324	16	14.226	13.677	33396	11	14.068	18.796	33468	46	16.764	25.314
				33253	40	10.574	6.213	33325	25	18.895	13.374	33397	40	16.804	18.644	33469	14	18.863	25.791
				33254	8	15.456	6.977	33326	14	0.268	14.869	33398	9	18.157	18.728	33470	11	19.308	25.888
				33255	13	17.501	6.465	33327	11	0.890	14.050	33399	27	23.646	18.489	33471	54	23.506	25.565
				33256	13	18.769	6.678	33328	9	1.974	14.714	33400	36	24.100	18.600	33472	11	23.520	25.296
				33257*	64	23.610	6.402	33329	8	2.212	14.373	33401	8	0.313	19.410				
				33258	8	23.836	6.457	33330	29	3.604	14.175	33402	10	1.354	19.792				
				33259*	40	3.804	7.827	33331	28	3.896	14.010	33403	20	2.826	19.832				
				33260	8	5.283	7.876	33332	34	6.244	14.314	33404	40	3.531	19.224				
				33261	38	10.907	7.116	33333	38	7.945	14.074	33405*	80	8.426	19.666				
				33262	40	12.754	7.824	33334	38	8.246	14.778	33406	9	10.164	19.886				
				33263	25	13.094	7.855	33335	11	10.825	14.555	33407	10	12.555	19.996				
				33264*	70	15.271	7.575	33336	10	10.940	14.498	33408	20	13.684	19.844				
				33265	22	15.784	7.642	33337	20	13.644	14.044	33409	26	14.084	19.583				
				33266	14	16.146	7.391	33338	26	16.972	14.315	33410*	49	14.196	19.578				
				33267	14	16.282	7.638	33339*	44	17.344	14.260	33411	36	14.089	19.848				
				33268	8	17.478	7.883	33340	40	19.648	14.133	33412	37	18.526	19.704				
				33269	14	18.688	7.342	33341*	58	19.915	14.896	33413	12	19.256	19.592				
				33270*	58	20.120	7.663	33342	11	21.696	14.510	33414*	54	19.965	19.370				
				33271	40	21.160	7.535	33343*	43	24.714	14.604	33415*	80	21.560	19.745				
				33272	8	25.536	7.192	33344	32	25.006	14.494	33416	8	22.216	19.990				
				33273	10	1.760	8.636	33345	8	3.100	15.728	33417*	54	22.963	19.566				
				33274	20	4.042	8.290	33346	41	5.459	15.678	33418	9	23.225	19.382				
				33275	8	20.076	8.200	33347	22	6.148	15.418	33419	8	24.446	19.922				
				33276	8	20.983	8.518	33348	21	7.094	15.794	33420	12	4.742	20.836				
				33277	14	22.032	8.476	33349	31	14.704	15.690	33421	2						

33506*	58	1.640	1.066	33578	13	9.974	9.904	33650*	64	15.004	17.413	33722	12	15.708	25.151	33794	22	9.812	3.108
33507	12	4.794	1.655	33579	8	13.785	9.901	33651	8	24.098	17.975	33723	9	16.861	25.868	33795	8	10.686	3.943
33508*	40	7.222	1.783	33580	12	16.542	9.318	33652	8	24.118	17.603	33724	16	17.942	25.832	33796	29	12.875	3.520
33509	26	11.033	1.798	33581	16	24.332	9.944	33653	20	1.430	18.864	33725*	118	23.225	25.348	33797	33	13.019	3.961
33510	8	21.438	1.926	33582	21	2.094	10.504	33654	26	1.884	18.965	33726*	42	24.782	25.478	33798	12	16.056	3.407
33511	12	22.124	1.271	33583	16	3.554	10.442	33655	24	4.616	18.054					33799	8	16.652	3.149
33512	18	22.576	1.410	33584	36	12.921	10.990	33656	9	7.994	18.215					33800	8	17.596	3.212
33513	12	7.005	2.792	33585*	42	12.924	10.416	33657	9	11.236	18.404					33801	20	18.425	3.751
33514	20	8.402	2.163	33586	8	14.442	10.576	33658	12	17.421	18.356					33802	8	22.311	3.194
33515	17	14.446	2.714	33587	18	15.500	10.026	33659	16	18.091	18.566					33803	10	24.684	3.387
33516	48	15.269	2.134	33588	37	15.502	10.775	33660	15	20.498	18.426					33804	20	1.952	4.806
33517	10	15.723	2.636	33589	13	15.766	10.432	33661	8	21.400	18.735					33805	13	3.646	4.436
33518	36	16.282	2.014	33590	13	16.234	10.382	33662*	58	0.751	19.944					33806	31	4.180	4.034
33519	10	18.084	2.753	33591	8	17.635	10.366	33663	8	1.018	19.762					33807	15	9.058	4.700
33520	17	1.104	3.016	33592	24	20.966	10.707	33664	14	4.264	19.507					33808*	48	11.800	4.266
33521	13	7.560	3.832	33593	17	24.140	10.422	33665	19	11.352	19.355					33809*	40	18.730	4.975
33522	17	10.538	3.577	33594	46	24.486	10.380	33666	8	13.836	19.472					33810	19	18.893	4.860
33523	8	17.060	3.155	33595	17	5.145	11.495	33667	8	15.002	19.206					33811	14	20.516	4.317
33524*	58	17.456	3.114	33596	14	8.996	11.616	33668	40	15.652	19.936					33812	31	22.242	4.756
33525	14	20.996	3.193	33597*	60	23.758	11.978	33669	31	21.422	19.980					33813	8	24.433	4.276
33526	21	21.773	3.387	33598	14	2.364	12.034	33670	11	23.393	19.888					33814	28	24.880	4.278
33527	8	0.110	4.138	33599	24	2.636	12.592	33671	8	0.018	20.380					33815	11	6.848	5.884
33528	36	0.504	4.237	33600	36	6.774	12.730	33672	34	0.587	20.912					33816	8	7.954	5.058
33529	14	6.480	4.786	33601	13	7.190	12.054	33673	18	12.602	20.942					33817	28	8.474	5.220
33530	8	7.061	4.904	33602	24	10.664	12.412	33674	12	13.122	20.458					33818	10	9.725	5.319
33531	16	11.424	4.164	33603	11	11.106	12.434	33675	33	13.234	20.242					33819	8	10.340	5.502
33532	12	13.838	4.376	33604	38	12.170	12.928	33676	12	19.213	20.075					33820	21	13.949	5.539
33533	8	16.114	4.256	33605	27	14.428	12.992	33677	13	21.104	20.015					33821	8	14.443	5.866
33534	32	16.231	4.614	33606	20	15.094	12.246	33678	8	21.438	20.244					33822*	50	17.456	5.726
33535	21	16.914	4.456	33607	21	16.948	12.065	33679	12	21.898	20.248					33823	35	18.737	5.825
33536	36	21.402	4.656	33608	20	25.300	12.998	33680	28	22.122	20.804					33824	10	23.216	5.904
33537	17	24.266	4.634	33609	20	5.896	13.267	33681	11	22.192	20.915					33825	15	24.029	5.087
33538	11	25.964	4.288	33610	12	7.928	13.478	33682	14	25.586	20.308					33826	22	2.465	6.509
33539	28	2.363	5.212	33611	10	9.925	13.088	33683	8	3.722	21.134					33827	16	5.246	6.350
33540	12	3.977	5.608	33612	14	10.655	13.793	33684	14	9.596	21.116					33828*	42	24.288	6.302
33541*	60	4.361	5.428	33613	15	10.755	13.036	33685	24	15.254	21.546					33829	8	25.504	6.271
33542	17	5.588	5.888	33614	22	11.478	13.102	33686	34	17.964	21.095					33830	33	2.536	7.864
33543	16	10.450	5.120	33615	8	11.581	13.206	33687	40	24.314	21.098					33831	8	4.708	7.652
33544	12	15.194	5.716	33616	36	18.382	13.796	33688*	58	25.444	21.606					33832	26	5.510	7.380
33545*	38	21.188	5.936	33617	22	18.763	13.964	33689	18	1.792	22.664					33833	8	6.701	7.784
33546	14	21.422	5.964	33618	8	25.867	13.065	33690	18	2.662	22.026					33834	15	11.310	7.330
33547*	60	1.264	6.776	33619*	42	2.455	14.965	33691	21	4.606	22.657					33835	14	11.925	7.498
33548	12	3.875	6.846	33620	17	2.753	14.854	33692	8	5.510	22.646					33836	9	21.203	7.188
33549	36	6.244	6.324	33621	36	5.065	14.793	33693	22	12.644	22.975					33837	20	22.652	7.798
33550	12	7.900	6.837	33622	26	5.262	14.492	33694	22	15.165	22.285					33838	8	3.174	8.624
33551	26	8.864	6.754	33623	19	5.626	14.276	33695	8	16.614	22.882					33839	12	3.855	8.055
33552	8	9.300	6.340	33624	8	7.964	14.954	33696	8	21.746	22.072					33840	22	4.514	8.476
33553	8	10.636	6.314	33625	28	20.202	14.976	33697	10	23.954	22.784					33841	8	5.940	8.756
33554	13	11.360	6.704	33626	34	24.256	14.875	33698*	46	25.178	22.324					33842	22	18.282	8.519
33555	15	18.488	6.487	33627	26	24.908	14.126	33699	16	2.234	23.062					33843*	70	19.362	8.212
33556	12	19.000	6.508	33628	9	3.391	15.916	33700	15	7.468	23.027					33844	35	19.915	8.266
33557	12	22.092	6.296	33629	15	6.075	15.436	33701	16	9.561	23.326					33845	20	21.585	8.973
33558	20	24.755	6.344	33630	8	8.513	15.654	33702	25	12.475	23.955					33846	8	22.065	8.916
33559	8	3.206	7.544	33631	8	13.168	15.507	33703	8	14.523	23.236					33847	23	22.256	8.746
33560	12	6.422	7.500	33632	24	13.446	15.876	33704	15	15.676	23.764					33848	11	23.194	8.050
33561*	56	7.678	7.242	33633	22	16.328	15.796	33705	12	15.812	23.305					33849	8	4.434	9.320
33562	9	9.136	7.982	33634	17	19.309	15.017	33706	12	25.868	23.184					33850	27	4.704	9.505
33563	8	9.364	7.259	33635	8	21.472	15.292	33707	28	0.686	24.386					33851	13	5.070	9.244
33564*	54	10.986	7.204	33636*	62	25.576	15.208	33708	8	1.749	24.856					33852	8	6.821	9.903
33565	22	12.189	7.462	33637	10	3.218	16.916	33709	15	6.764	24.026					33853	15	8.942	9.354
33566	8	14.812	7.494	33638	17	5.816	16.810	33710	17	16.432	24.915					33854	17	8.946	9.904
33567*	60	14.914	7.118	33639	8	5.892	16.814	33711	8	18.509	24.906					33855	10	14.337	9.436
33568	38	24.806	7.701	33640	36	7.374	16.107	33712	12	21.254	24.486					33856	12	18.004	9.474
33569	11	5.755	8.205	33641	8	12.294	16.256	33713	30	22.066	24.009					33857	8	22.214	9.370
33570	30	8.670	8.824	33642	13	12.982	16.426	33714	11	23.756	24.114					33858	11	22.335	9.100
33571	12	9.334	8.422	33643	13	17.896	16.526	33715*	58	1.358	25.938					33859	20	1.909	10.596
33572	14	18.700	8.226	33644*	37	19.974	16.338	33716	17	1.376	25.676					33860	16	2.094	10.116
33573	10	21.146	8.615	33645	16	0.448	17.784	33717	26	8.099	25.054					33861	42	2.250	10.549
33574	60	0.056	9.956	33646	20	4.608	17.534	33718	36	13.596	25.184					33862	8	4.538	10.794
33575	32	7.635	9.386	33647	10	9.202	17.236	33719	10	13.622	25.176					33863			

33866	8	10.270	10.194	33938	8	9.140	15.174	34010	9	18.514	19.210	34082	12	4.000	24.254	34174	14	4.664	2.807
33867	19	10.500	10.222	33939	21	9.676	15.426	34011	12	19.448	19.914	34083	8	4.174	24.198	34175	18	9.896	2.892
33868	8	13.581	10.441	33940	13	9.994	15.156	34012	10	20.386	19.715	34084	9	8.204	24.476	34176	8	14.136	2.823
33869	19	13.706	10.845	33941	12	11.800	15.160	34013	10	21.896	19.503	34085*	46	12.402	24.314	34177	8	15.189	2.453
33870	24	15.776	10.988	33942	8	13.427	15.372	34014	26	22.650	19.100	34086	11	12.920	24.680	34178	8	17.648	2.652
33871	8	16.176	10.730	33943	23	14.534	15.900	34015	8	22.668	19.506	34087	23	13.790	24.270	34179	9	17.724	2.498
33872	14	17.406	10.200	33944	8	15.396	15.714	34016	8	0.818	20.280	34088	21	19.234	24.800	34180	12	21.034	2.545
33873	26	19.284	10.456	33945	8	17.560	15.500	34017	8	1.300	20.072	34089	18	19.800	24.050	34181	8	23.659	2.601
33874	28	20.126	10.132	33946	8	21.566	15.436	34018	8	1.310	20.310	34090	8	22.050	24.201	34182	9	23.760	2.440
33875	8	20.408	10.507	33947	12	21.614	15.210	34019	8	2.976	20.147	34091	21	23.726	24.077	34183	8	0.061	3.254
33876	15	21.706	10.456	33948	11	5.034	16.675	34020	8	3.295	20.360	34092	120	1.203	25.530	34184	10	2.434	3.445
33877	9	23.043	10.858	33949	20	7.688	16.598	34021	16	3.500	20.458	34093	41	2.769	25.634	34185	8	6.036	3.774
33878	11	25.786	10.074	33950	18	9.511	16.751	34022	22	4.494	20.430	34094	51	6.230	25.276	34186	12	6.074	3.775
33879	8	0.846	11.566	33951	11	11.122	16.142	34023	34	5.030	20.964	34095	8	6.451	25.864	34187	22	6.884	3.672
33880	15	5.310	11.593	33952	10	13.004	16.418	34024*	40	7.086	20.282	34096	29	9.327	25.074	34188	8	10.406	3.695
33881	18	9.864	11.754	33953	17	14.376	16.016	34025	13	8.456	20.922	34097	23	10.608	25.424	34189	8	13.102	3.944
33882	18	10.032	11.300	33954	35	14.906	16.148	34026	8	10.410	20.168	34098	44	12.035	25.574	34190	20	14.953	3.438
33883	8	11.349	11.044	33955	42	15.928	16.413	34027	8	11.086	20.438	34099	8	14.006	25.681	34191*	40	15.500	3.228
33884	8	11.849	11.646	33956	33	15.946	16.378	34028	11	11.340	20.932	34100	33	14.800	25.696	34192	8	16.152	3.618
33885	12	12.464	11.740	33957	8	16.058	16.320	34029	8	14.942	20.134	34101	18	16.522	25.535	34193	8	18.115	3.215
33886	8	13.370	11.046	33958	8	17.766	16.616	34030	8	17.071	20.739	34102	9	23.652	25.654	34194	8	2.184	4.332
33887	22	14.830	11.250	33959	8	18.786	16.776	34031	17	18.876	20.606	34103	8	24.098	25.402	34195	30	2.629	4.334
33888	9	15.147	11.240	33960	10	20.752	16.760	34032	40	20.518	20.636	34104	12	25.144	25.367	34196	8	4.874	4.835
33889	24	15.880	11.856	33961	27	22.330	16.554	34033	8	22.720	20.114					34197	8	6.353	4.885
33890	8	19.774	11.770	33962	8	24.376	16.090	34034	21	22.924	20.334					34198	18	8.346	4.022
33891	8	22.310	11.620	33963	34	24.998	16.722	34035	40	23.030	20.018					34199	13	8.426	4.316
33892*	80	22.873	11.060	33964	31	25.444	16.892	34036	19	23.587	20.157					34200	8	9.475	4.291
33893	22	24.718	11.054	33965	8	1.932	17.415	34037	22	0.044	21.002					34201	8	12.105	4.536
33894*	60	1.550	12.156	33966	10	1.997	17.774	34038	8	0.117	21.116					34202	11	13.214	4.924
33895	23	3.094	12.154	33967	24	4.177	17.220	34039	43	2.240	21.266					34203	10	21.354	4.959
33896	23	6.360	12.200	33968	8	5.972	17.291	34040*	53	3.372	21.754					34204	11	21.534	4.657
33897	13	7.756	12.228	33969	16	6.462	17.200	34041	40	5.507	21.158					34205	10	0.968	5.958
33898	15	8.323	12.934	33970	18	8.974	17.340	34042	8	5.722	21.948					34206	12	1.784	5.145
33899	36	11.919	12.545	33971	32	16.510	17.666	34043*	45	8.520	21.224					34207	9	4.230	5.206
33900	8	12.770	12.905	33972	8	16.512	17.409	34044	10	8.764	21.532					34208	8	7.423	5.576
33901	8	15.840	12.226	33973	14	17.548	17.767	34045	11	10.498	21.484					34209	8	10.237	5.108
33902	34	18.460	12.356	33974	26	18.141	17.754	34046	34	13.344	21.496					34210	8	10.782	5.964
33903	25	19.376	12.450	33975	8	19.105	17.296	34047	28	15.471	21.652					34211	15	12.079	5.099
33904	8	20.610	12.941	33976	10	19.324	17.124	34048	17	17.557	21.750					34212	9	21.295	5.730
33905	18	20.804	12.134	33977	8	19.510	17.762	34049	8	17.754	21.182					34213	8	23.242	5.314
33906*	75	21.830	12.763	33978	8	20.476	17.475	34050	8	21.811	21.585					34214	25	25.639	5.826
33907	17	22.532	12.614	33979	9	1.980	18.146	34051	42	21.908	21.168					34215*	36	2.036	6.358
33908	9	23.824	12.177	33980	41	4.222	18.132	34052	11	22.496	21.888					34216	9	3.255	6.329
33909	8	25.526	12.696	33981	8	5.025	18.704	34053	10	22.700	21.862					34217	8	4.343	6.586
33910	8	3.336	13.657	33982	25	5.064	18.604	34054	25	22.840	21.319					34218	8	8.506	6.555
33911	11	3.676	13.210	33983	8	7.350	18.398	34055	12	1.904	22.952					34219	18	9.865	6.955
33912	8	18.998	13.156	33984	15	7.723	18.777	34056*	45	3.122	22.478					34220	8	13.784	6.900
33913	28	2.734	14.286	33985	8	8.088	18.599	34057	8	6.373	22.870					34221	21	20.771	6.884
33914	8	4.322	14.822	33986	8	11.304	18.460	34058	25	7.785	22.247					34222	13	21.796	6.015
33915	31	5.518	14.953	33987	8	12.534	18.026	34059	8	8.231	22.559					34223	8	22.555	6.862
33916	18	7.190	14.437	33988	8	14.656	18.814	34060*	50	12.498	22.110					34224	12	23.293	6.562
33917	22	8.920	14.007	33989	8	15.650	18.024	34061	24	17.684	22.318					34225	15	24.227	6.198
33918	8	8.980	14.433	33990	8	17.376	18.725	34062	8	18.886	22.378					34226	13	0.402	7.855
33919	19	9.178	14.890	33991	32	21.816	18.198	34063	19	19.036	22.480					34227	10	4.764	7.606
33920	16	9.188	14.088	33992	14	21.818	18.081	34064	15	19.884	22.714					34228	10	8.586	7.695
33921	26	9.258	14.820	33993*	44	22.204	18.554	34065	16	20.526	22.199					34229	20	9.398	7.234
33922	13	10.962	14.240	33994	8	22.711	18.116	34066	9	23.086	22.225					34230	10	13.532	7.546
33923	8	14.550	14.640	33995	11	24.327	18.900	34067	8	23.722	22.185					34231	12	17.728	7.764
33924	35	14.895	14.649	33996	8	24.516	18.568	34068	8	24.090	22.384					34232	10	18.914	7.516
33925	8	15.208	14.343	33997	15	25.684	18.574	34069	14	3.825	23.326					34233	9	21.294	7.649
33926	34	16.114	14.860	33998*	39	6.846	19.342	34070	15	4.934	23.163					34234	17	22.885	7.346
33927	14	16.480	14.988	33999	12	6.856	19.972	34071	10	5.018	23.825					34235	8	24.394	7.536
33928	8	22.107	14.462	34000	31	8.432	19.758	34072	8	5.189	23.300					34236	8	24.978	7.403
33929	41	24.227	14.482	34001	17	9.535	19.176	34073	13	7.502	23.098					34237	11	0.006	8.806
33930	8	24.718	14.008	34002*	33	10.036	19.236	34074	34	14.282	23.629					34238	10	0.942	8.106
33931	8	24.801	14.424	34003	10	10.668	19.491	34075	8	15.994	23.144					34239	8	3.196	8.437
33932	32	2.092	15.044	34004*	34	11.020	19.640	34076	8	17.539	23.548					34240	10	12.084	8.762
33933*	60	3.408	15.356	34005	9	11.926	19.710	34077	9	17.864	23.325					342			

34246	8	25.700	8.437	34318	10	23.550	14.516	34390	8	25.020	20.573	<div>R.A. 12^h 16^m</div> <div>Plate 717; 1916 May 6.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—0.02594 +0.01030 +.1159</div> <div>D E F</div> <div>—0.01014 —0.02565 —.1218</div> <div>Mag.=16.1—1.05√d</div>	34556	16	14.993	5.125
34247	8	0.086	9.156	34319	18	25.715	14.098	34391	8	25.048	20.554		34557	8	22.261	5.994
34248	19	3.866	9.352	34320	11	5.714	15.545	34392	8	25.260	20.342		34558	10	23.161	5.682
34249	10	4.176	9.406	34321	8	6.730	15.535	34393	9	0.247	21.947		34559	8	23.197	5.110
34250	21	4.634	9.468	34322	8	6.874	15.185	34394	10	0.454	21.922		34560	50	25.358	5.164
34251	10	5.190	9.400	34323	16	8.115	15.388	34395	15	0.588	21.377		34561	26	25.372	5.004
34252	8	6.287	9.006	34324*	54	9.284	15.248	34396	28	4.306	21.512		34562	8	25.450	5.614
34253	11	6.798	9.394	34325	12	12.834	15.526	34397	17	13.644	21.786		34563	8	0.170	6.842
34254	20	11.426	9.774	34326	8	13.324	15.936	34398	8	14.365	21.660		34564	14	0.896	6.524
34255	8	12.787	9.955	34327	10	20.905	15.815	34399	21	20.306	21.598		34565	18	1.824	6.140
34256	9	13.703	9.122	34328	8	21.517	15.148	34400	34	20.580	21.855	34566	31	7.230	6.947	
34257	8	14.454	9.176	34329	14	24.595	15.721	34401	19	21.018	21.021	34567	8	13.829	6.630	
34258	30	20.695	9.645	34330	16	0.076	16.615	34402	8	22.677	21.939	34568	22	15.681	6.516	
34259	9	22.060	9.778	34331	9	2.126	16.148	34403	14	24.305	21.364	34569	12	17.410	6.413	
34260	10	22.410	9.776	34332	25	2.746	16.783	34404*	40	24.357	21.604	34570	22	0.508	7.320	
34261*	33	24.986	9.140	34333	22	3.194	16.954	34405	9	0.838	22.285	34571	15	7.724	7.228	
34262	8	0.795	10.915	34334	20	12.752	16.920	34406	8	1.474	22.245	34572	11	10.043	7.990	
34263	8	5.102	10.187	34335	8	15.565	16.764	34407	8	1.845	22.444	34573	26	10.414	7.496	
34264	8	6.464	10.060	34336	10	16.392	16.950	34408	23	5.376	22.594	34574	8	14.648	7.871	
34265*	35	10.196	10.662	34337	10	16.845	16.014	34409	8	6.902	22.926	34575*	30	17.142	7.442	
34266	20	10.974	10.940	34338	9	17.493	16.824	34410	20	7.255	22.510	34576	8	25.234	7.433	
34267	21	12.545	10.346	34339*	48	20.094	16.351	34411	14	7.403	22.742	34577	38	25.251	7.778	
34268	33	13.425	10.276	34340	8	22.496	16.454	34412	10	8.114	22.388	34578	18	0.782	8.864	
34269	20	18.155	10.626	34341	8	24.582	16.898	34413	8	8.446	22.621	34579	8	3.353	8.342	
34270	18	22.090	10.326	34342	8	7.421	17.891	34414	29	12.585	22.755	34580	8	4.820	8.587	
34271	8	22.536	10.534	34343	15	7.489	17.550	34415	8	15.385	22.746	34509	8	3.099	1.880	
34272	8	24.395	10.974	34344	10	7.528	17.500	34416	8	15.556	22.887	34510	8	5.294	1.364	
34273	8	0.058	11.677	34345	9	8.415	17.336	34417	18	15.589	22.375	34511	29	5.954	1.936	
34274	80	0.616	11.116	34346	22	10.421	17.898	34418	8	16.866	22.918	34512	12	7.730	1.642	
34275	8	1.452	11.216	34347	8	10.628	17.924	34419*	41	18.736	22.322	34513	8	12.054	1.169	
34276	16	2.470	11.114	34348	10	13.910	17.370	34420	20	19.418	22.499	34514	15	12.639	1.210	
34277	12	5.533	11.255	34349	8	14.458	17.366	34421	8	19.425	22.037	34515	8	13.056	1.874	
34278	8	6.244	11.863	34350	10	21.634	17.819	34422	8	19.728	22.435	34516	12	14.420	1.442	
34279	12	7.233	11.614	34351	9	0.464	18.175	34423	8	22.221	22.586	34517	8	17.614	1.106	
34280	15	13.579	11.810	34352	10	2.078	18.958	34424	18	5.931	23.100	34518	16	17.925	1.932	
34281	8	15.111	11.634	34353	9	2.268	18.626	34425	26	7.704	23.391	34519*	32	19.973	1.974	
34282	10	19.570	11.929	34354	13	3.436	18.632	34426	8	11.224	23.084	34520	25	20.406	1.086	
34283	20	23.055	11.776	34355	8	6.065	18.688	34427	10	12.965	23.314	34521	20	24.665	1.686	
34284	8	23.700	11.604	34356	26	8.376	18.772	34428	10	15.025	23.894	34522	8	24.845	1.874	
34285	8	23.788	11.654	34357	11	8.865	18.258	34429	10	17.580	23.306	34523	8	1.265	2.391	
34286	15	25.910	11.266	34358	8	9.765	18.225	34430	8	18.025	23.590	34524	9	4.650	2.997	
34287	12	0.280	12.674	34359	8	14.657	18.395	34431	13	25.994	23.025	34525	8	7.980	2.152	
34288	8	1.575	12.235	34360	12	15.394	18.205	34432	8	0.224	24.961	34526	12	8.016	2.796	
34289	8	2.760	12.456	34361	8	15.670	18.456	34433	14	1.480	24.138	34527	8	11.285	2.098	
34290	10	3.277	12.754	34362	8	19.571	18.938	34434	8	1.956	24.527	34528	9	18.764	2.359	
34291	9	3.774	12.772	34363	13	22.319	18.995	34435	28	5.245	24.196	34529	8	19.932	2.304	
34292	10	4.328	12.727	34364	8	24.302	18.362	34436	8	5.324	24.803	34530	8	22.084	2.880	
34293	8	10.422	12.315	34365	10	25.766	18.938	34437	30	5.386	24.250	34531	10	23.614	2.875	
34294	12	14.366	12.244	34366	14	0.402	19.159	34438	34	5.466	24.198	34532	39	24.150	2.796	
34295	10	15.555	12.964	34367	8	0.420	19.566	34439	10	6.564	24.712	34533	11	25.616	2.461	
34296	10	16.815	12.936	34368	12	4.148	19.961	34440	16	11.156	24.324	34534	11	8.624	3.733	
34297	20	18.515	12.434	34369*	46	15.974	19.562	34441	18	14.130	24.636	34535	8	11.240	3.898	
34298*	45	19.936	12.395	34370	13	19.780	19.006	34442	8	17.282	24.665	34536	12	11.816	3.000	
34299	8	6.978	13.335	34371	10	20.542	19.755	34443	8	18.154	24.813	34537	14	12.146	3.116	
34300	8	7.048	13.194	34372	8	23.284	19.473	34444	9	18.344	24.065	34538	22	14.896	3.836	
34301	35	8.316	13.216	34373	8	24.370	19.022	34445	14	20.998	24.467	34539	8	16.748	3.813	
34302	20	11.275	13.478	34374	9	24.984	19.076	34446	12	25.195	24.716	34540	28	16.848	3.141	
34303	35	13.244	13.668	34375	8	0.471	20.175	34447	9	1.407	25.715	34541	10	16.915	3.238	
34304	8	14.108	13.964	34376	12	0.675	20.394	34448	8	1.855	25.460	34542	8	20.146	3.482	
34305	8	14.899	13.443	34377	35	0.778	20.076	34449	12	2.896	25.426	34543	35	25.584	3.293	
34306</																

34628	22	21.348	13.992	34700	13	12.756	22.706	34770	12	3.326	2.442	34842*	41	2.975	7.758	34914	10	25.751	11.596
34629	9	1.354	14.472	34701	13	21.164	22.252	34771	28	4.664	2.650	34843	20	5.090	7.556	34915	42	0.806	12.698
34630	19	3.508	14.002	34702	8	24.516	22.015	34772	27	4.718	2.126	34844	15	5.337	7.192	34916	8	1.500	12.736
34631*	45	4.889	14.350	34703	29	24.696	22.888	34773	11	5.410	2.371	34845	15	5.348	7.086	34917	9	2.041	12.130
34632	8	22.557	14.023	34704	19	13.338	23.436	34774	24	7.020	2.313	34846	8	5.912	7.450	34918	13	4.764	12.904
34633	25	23.606	14.240	34705	8	14.495	23.101	34775	8	7.340	2.490	34847	27	6.442	7.657	34919	16	6.500	12.910
34634	8	25.452	14.685	34706	21	19.718	23.605	34776	10	7.700	2.026	34848	22	10.620	7.244	34920	8	8.149	12.822
34635	20	2.426	15.650	34707	38	20.986	23.864	34777	8	9.547	2.162	34849	10	13.750	7.100	34921*	38	8.378	12.941
34636	16	7.199	15.882	34708	8	21.136	23.104	34778	8	11.099	2.825	34850	10	14.473	7.160	34922*	64	9.424	12.940
34637	16	14.825	15.493	34709*	54	23.221	23.988	34779	9	12.328	2.374	34851	8	15.628	7.850	34923	8	10.507	12.442
34638	8	15.892	15.970	34710	20	3.256	24.628	34780	9	12.538	2.571	34852	15	16.574	7.760	34924	10	14.933	12.400
34639	24	16.498	15.060	34711	8	4.869	24.091	34781	20	13.156	2.521	34853	8	20.597	7.262	34925	10	15.002	12.904
34640	8	17.884	15.794	34712	8	6.346	24.600	34782	18	13.385	2.943	34854	17	21.262	7.330	34926	8	15.758	12.798
34641	8	19.475	15.944	34713	23	8.864	24.779	34783	37	16.996	2.365	34855	10	21.310	7.675	34927	10	16.070	12.858
34642	15	21.334	15.710	34714	18	9.054	24.757	34784	14	18.004	2.720	34856	8	22.588	7.969	34928	11	16.970	12.290
34643	11	22.161	15.054	34715	9	10.853	24.181	34785	11	18.131	2.707	34857	8	24.134	7.115	34929	8	21.067	12.245
34644	11	23.714	15.670	34716	10	14.823	24.626	34786*	56	18.452	2.476	34858	13	24.367	7.290	34930	8	21.114	12.263
34645	17	23.850	15.853	34717	26	14.850	24.450	34787	8	23.269	2.666	34859	10	0.561	8.063	34931	10	22.418	12.340
34646	9	25.476	15.100	34718	15	16.306	24.410	34788	14	24.461	2.829	34860*	56	0.833	8.812	34932	8	0.405	13.344
34647*	33	4.286	16.500	34719*	76	20.908	24.258	34789	58	25.646	2.570	34861	12	2.270	8.516	34933	8	3.482	13.156
34648	16	5.865	16.319	34720	8	22.992	24.602	34790	8	0.974	3.557	34862	8	3.507	8.942	34934	8	3.607	13.949
34649	8	6.414	16.806	34721	8	3.518	25.981	34791	34	3.295	3.274	34863	17	7.158	8.135	34935	8	4.192	13.880
34650*	30	8.208	16.804	34722	8	4.600	25.666	34792	18	4.284	3.123	34864	8	8.330	8.308	34936	11	4.690	13.690
34651	12	9.638	16.501	34723	8	9.648	25.056	34793	11	8.159	3.822	34865*	68	8.926	8.560	34937	10	6.800	13.487
34652	8	16.454	16.580	34724	8	14.329	25.530	34794	15	10.885	3.894	34866	8	9.462	8.776	34938	8	6.904	13.932
34653	8	20.314	16.988	34725	14	18.192	25.183	34795	8	12.110	3.130	34867	13	10.884	8.468	34939	8	10.015	13.154
34654	22	24.816	16.750	34726	14	18.950	25.580	34796	10	17.480	3.147	34868	12	11.620	8.315	34940	10	10.567	13.684
34655	8	4.344	17.800	34727	8	19.684	25.589	34797	8	18.056	3.148	34869	11	12.681	8.615	34941	8	12.347	13.635
34656	10	14.074	17.098	34728	8	24.500	25.010	34798	40	19.020	3.512	34870	8	16.923	8.136	34942	10	14.700	13.664
34657	22	17.803	17.074					34799	8	19.284	3.619	34871	14	17.106	8.468	34943	10	17.377	13.478
34658	10	19.970	17.110					34800	22	21.801	3.455	34872	10	17.504	8.927	34944	17	19.804	13.552
34659	10	21.755	17.924					34801	10	22.850	3.544	34873	11	17.953	8.784	34945	23	19.846	13.674
34660	23	0.235	18.978					34802	63	25.210	3.402	34874	10	20.433	8.256	34946	16	25.768	13.058
34661	8	2.288	18.956					34803	28	3.090	4.984	34875	36	24.870	8.652	34947	20	1.350	14.223
34662	10	2.900	18.995					34804	8	4.912	4.919	34876	8	6.426	9.374	34948	9	3.200	14.663
34663	10	3.680	18.839					34805	11	7.306	4.588	34877	37	9.910	9.068	34949	10	4.585	14.710
34664	8	11.414	18.968					34806	10	8.734	4.029	34878*	38	10.965	9.235	34950	31	6.624	14.074
34665	17	17.802	18.150					34807	8	9.938	4.530	34879	9	11.603	9.450	34951	8	7.020	14.122
34666*	38	18.830	18.633					34808	21	11.088	4.003	34880	28	11.608	9.330	34952	12	8.791	14.692
34667	8	24.225	18.241					34809	8	11.364	4.468	34881	8	16.043	9.253	34953	8	10.410	14.578
34668	28	24.456	18.962					34810	10	12.386	4.998	34882	18	17.513	9.831	34954	8	10.553	14.338
34669	12	10.602	19.082					34811	8	14.092	4.440	34883	8	21.900	9.856	34955	8	12.063	14.888
34670	31	12.492	19.982					34812	8	16.778	4.834	34884*	37	22.340	9.902	34956	8	12.478	14.902
34671	21	14.890	19.950					34813	25	17.536	4.976	34885	11	22.576	9.994	34957	8	13.638	14.985
34672	14	14.976	19.835					34814	9	17.872	4.209	34886	8	24.796	9.942	34958*	38	16.071	14.453
34673	15	19.800	19.174					34815	10	24.940	4.230	34887	14	25.596	9.275	34959	20	16.610	14.546
34674	9	22.400	19.104					34816	41	25.875	4.184	34888	8	25.953	9.985	34960	8	17.594	14.410
34675	22	22.486	19.294					34817	10	0.880	5.669	34889	8	2.696	10.842	34961	10	19.376	14.086
34676	37	23.724	19.794					34818	8	0.914	5.098	34890	12	2.886	10.767	34962	8	20.166	14.380
34677	8	3.214	20.254					34819*	47	3.072	5.146	34891	8	2.925	10.397	34963	11	21.995	14.368
34678	8	5.633	20.587					34820	8	3.170	5.593	34892	9	2.930	10.149	34964*	45	22.126	14.516
34679	30	6.200	20.859					34821*	47	3.940	5.008	34893*	64	7.458	10.636	34965	12	1.463	15.652
34680	19	8.506	20.564					34822	8	5.714	5.333	34894	10	7.912	10.175	34966	14	1.602	15.835
34681*	56	8.706	20.672					34823	11	7.297	5.490	34895	8	9.018	10.508	34967	12	3.224	15.076
34682*	48	8.924	20.008					34824	15	9.148	5.747	34896	10	12.119	10.240	34968	10	10.122	15.816
34683*	48	9.538	20.877					34825	12	10.320	5.710	34897	10	12.670	10.360	34969	8	13.386	15.838
34684	9	10.886	20.653	34754*	38	11.920	0.991	34826	8	10.974	5.220	34898	9	13.914	10.650	34970	8	18.870	15.736
34685	8	11.276	20.400	34755	8	14.848	0.088	34827	25	11.514	5.670	34899	19	18.369	10.073	34971	8	25.722	15.543
34686	8	17.650	20.096	34756	13	16.625	0.573	34828	11	11.880	5.700	34900	10	22.640	10.353	34972	16	2.570	16.726
34687	8	19.832	20.170	34757	10	24.297	0.938	34829	13	14.454	5.064	34901	8	23.043	10.544	34973	8	3.934	16.584
34688*	68	20.448	20.220	34758	18	2.371	1.669	34830*	46	15.642	5.116	34902	9	23.814	10.352	34974	8	5.494	16.700
34689	16	21.155	20.295	34759	10	2.553	1.853	34831	24	15.720	5.500	34903	12	25.470	10.204	34975	10	9.412	16.452
34690	21	2.278	21.300	34760	11	8.998	1.950	34832	21	16.363	5.588	34904	11	3.130	11.884	34976	10	10.378	16.653
34691*	40	2.336	21.536	34761	24	10.782	1.342	34833	10	18.362	5.026	34905	9	4.390	11.594	34977	8	16.616	16.883
34692	8	9.540	21.132	34762	10	15.376	1.493	34834	11	18.440	5.372	34906	8	4.859	11.058	34978	8	16.975	16.804
34693	30	10.630	21.188	34763	8	15.526	1.520	34835	8	22.101	5.729	34907	8	5.156	11.176	34979	8	18.814	16.459
346																			

34986	24	9.471	17.348	35058	38	4.487	22.807	35156	24	22.798	0.616	35228	32	19.616	7.075	35300	32	3.554	13.456
34987	28	9.587	17.440	35059	32	14.686	22.828	35157	20	25.004	0.456	35229*	82	4.372	8.486	35301	8	7.281	13.937
34988	8	9.748	17.632	35060	10	16.148	22.272	35158	12	1.964	1.351	35230*	40	6.479	8.115	35302	10	11.722	13.050
34989	10	10.700	17.519	35061	9	18.272	22.050	35159	40	3.520	1.601	35231	40	8.704	8.450	35303*	44	17.866	13.330
34990	8	11.410	17.548	35062	13	19.755	22.868	35160	38	5.546	1.051	35232	41	11.536	8.350	35304*	44	23.861	13.950
34991	20	14.944	17.443	35063	8	23.707	22.193	35161	8	7.535	1.025	35233	8	14.073	8.827	35305	19	25.609	13.902
34992*	47	18.450	17.464	35064	8	25.351	22.380	35162	9	12.626	1.814	35234*	47	17.735	8.050	35306	44	5.008	14.806
34993	8	18.696	17.632	35065*	59	0.996	23.972	35163	8	15.242	1.658	35235	41	19.064	8.838	35307	8	5.756	14.354
34994	30	22.282	17.822	35066	10	8.486	23.812	35164	8	16.793	1.958	35236	36	19.128	8.565	35308	43	6.870	14.876
34995	26	23.048	17.815	35067	14	8.747	23.340	35165*	40	17.538	1.950	35237	31	20.216	8.001	35309	10	7.724	14.329
34996	8	1.144	18.180	35068	8	11.651	23.902	35166	27	19.848	1.500	35238*	70	20.375	8.361	35310	19	7.846	14.197
34997	25	2.217	18.940	35069	8	12.175	23.798	35167	35	21.510	1.722	35239	18	24.452	8.030	35311	15	8.466	14.692
34998	25	4.451	18.666	35070	13	16.081	23.796	35168	11	21.534	1.075	35240	43	2.606	9.064	35312	11	9.644	14.512
34999	8	4.661	18.160	35071	13	23.376	23.948	35169	8	21.576	1.716	35241	17	3.344	9.676	35313	10	9.726	14.977
35000	8	5.539	18.840	35072	8	25.543	23.242	35170	34	3.298	2.335	35242	8	3.845	9.227	35314	10	10.804	14.590
35001	13	8.790	18.482	35073	8	0.771	24.582	35171*	64	3.316	2.971	35243	10	5.542	9.826	35315*	43	15.734	14.179
35002*	43	10.332	18.056	35074	8	4.932	24.516	35172	8	5.218	2.805	35244	8	6.376	9.954	35316	10	19.444	14.336
35003	10	12.022	18.948	35075	10	6.203	24.294	35173	28	7.428	2.432	35245	25	13.192	9.193	35317	8	19.850	14.887
35004	15	13.880	18.927	35076	8	8.022	24.384	35174	8	7.508	2.652	35246	8	14.762	9.780	35318	8	19.944	14.417
35005*	42	16.158	18.006	35077*	37	10.413	24.260	35175	11	9.098	2.122	35247	12	15.545	9.518	35319	8	22.192	14.984
35006	8	16.948	18.844	35078	8	12.293	24.434	35176	8	15.853	2.752	35248*	135	17.164	9.130	35320	8	25.354	14.412
35007	14	17.862	18.802	35079	10	15.336	24.074	35177*	34	16.445	2.633	35249	21	20.146	9.614	35321	12	25.728	14.660
35008	14	19.504	18.116	35080	10	16.412	24.002	35178	32	16.685	2.016	35250	8	22.906	9.508	35322	9	3.536	15.942
35009	8	20.961	18.400	35081	10	16.512	24.363	35179	17	17.486	2.999	35251	27	23.200	9.627	35323	32	8.573	15.580
35010	27	21.589	18.430	35082	11	16.640	24.671	35180*	75	20.655	2.516	35252	12	25.350	9.090	35324	16	10.478	15.298
35011	8	22.372	18.729	35083	36	18.006	24.452	35181*	47	21.132	2.881	35253	49	0.088	10.340	35325*	51	21.280	15.572
35012	8	23.860	18.104	35084*	66	18.314	24.451	35182	8	23.294	2.744	35254	9	0.333	10.425	35326	9	23.136	15.892
35013	8	0.086	19.640	35085	10	19.526	24.995	35183	8	0.540	3.969	35255	8	0.400	10.786	35327	8	25.084	15.023
35014	9	0.160	19.089	35086	25	19.554	24.070	35184	8	0.953	3.900	35256	8	0.802	10.968	35328	30	25.230	15.675
35015	18	0.250	19.279	35087	8	19.653	24.148	35185	21	2.144	3.243	35257	9	1.572	10.769	35329	14	2.815	16.880
35016	39	1.485	19.776	35088	18	20.402	24.742	35186*	80	2.888	3.811	35258	8	2.551	10.350	35330	30	5.388	16.905
35017	8	1.806	19.613	35089	8	20.776	24.762	35187	20	5.137	3.428	35259	13	3.226	10.604	35331	34	7.966	16.010
35018	8	8.966	19.735	35090	15	21.059	24.144	35188	10	7.212	3.264	35260	37	3.984	10.776	35332	39	9.400	16.926
35019	24	9.014	19.016	35091	8	22.197	24.378	35189	9	7.888	3.200	35261	9	5.789	10.309	35333*	44	10.275	16.606
35020	8	10.309	19.394	35092	17	23.503	24.823	35190	8	9.194	3.489	35262	9	9.964	10.911	35334	8	16.783	16.109
35021	19	10.783	19.581	35093	18	25.641	24.634	35191	40	13.376	3.833	35263	15	11.712	10.892	35335	10	16.799	16.256
35022	11	13.177	19.042	35094	8	4.688	25.236	35192	13	17.845	3.291	35264	9	12.015	10.476	35336	8	17.501	16.668
35023	35	17.889	19.086	35095	10	4.864	25.713	35193	8	18.861	3.970	35265	8	13.377	10.566	35337	34	20.661	16.724
35024	8	19.070	19.225	35096	10	5.188	25.450	35194	24	22.098	3.646	35266	8	18.306	10.174	35338	11	21.100	16.463
35025	9	19.670	19.984	35097	15	10.644	25.436	35195	34	22.622	3.110	35267	11	19.506	10.843	35339	8	21.736	16.926
35026	20	19.721	19.018	35098	12	10.770	25.528	35196	11	2.635	4.636	35268*	66	0.906	11.926	35340	36	25.980	16.726
35027	12	22.581	19.600	35099	8	15.712	25.376	35197	46	3.564	4.584	35269	12	3.523	11.997	35341	8	6.586	17.908
35028	8	23.510	19.580	35100	22	24.668	25.161	35198	8	7.425	4.278	35270	23	4.832	11.856	35342	8	7.126	17.526
35029	13	23.911	19.029					35199	38	7.893	4.722	35271	46	5.380	11.295	35343*	50	11.542	17.918
35030	13	23.950	19.066					35200	8	16.504	4.631	35272	34	6.587	11.416	35344	20	16.976	17.232
35031	10	24.744	19.780					35201	16	20.862	4.760	35273	10	6.755	11.619	35345	8	19.832	17.358
35032	20	3.948	20.286					35202	31	21.824	4.554	35274	40	6.834	11.604	35346	8	22.029	17.210
35033	40	4.293	20.173					35203	8	2.751	5.856	35275	10	8.334	11.954	35347	8	25.490	17.068
35034	8	5.980	20.355					35204	19	10.945	5.476	35276	17	11.316	11.918	35348	42	0.114	18.260
35035	8	7.770	20.918					35205	9	16.392	5.377	35277	8	11.804	11.582	35349	40	0.878	18.245
35036	20	9.306	20.748					35206	8	16.506	5.252	35278	22	19.290	11.711	35350	27	8.970	18.074
35037	10	10.576	20.270					35207	13	18.668	5.312	35279	30	19.532	11.362	35351	14	10.827	18.248
35038	12	10.918	20.283					35208	11	20.935	5.324	35280	38	20.180	11.394	35352	8	12.714	18.550
35039	8	15.652	20.307					35209	8	2.495	6.462	35281	38	20.364	11.338	35353	11	17.438	18.950
35040	26	19.462	20.120					35210	35	7.916	6.514	35282	31	21.165	11.753	35354	8	20.398	18.873
35041	11	22.336	20.064					35211	8	8.860	6.334	35283	8	21.832	11.436	35355	8	25.864	18.328
35042	9	2.288	21.993					35212	8	9.962	6.388	35284	15	21.955	11.828	35356	15	1.758	19.446
35043*	64	2.644	21.734					35213	38	15.048	6.668	35285	29	24.594	11.135	35357	14	1.800	19.483
35044*	68	5.511	21.218					35214	14	18.183	6.556	35286	11	0.196	12.774	35358	16	5.073	19.320
35045	11	7.755	21.596					35215*	52	18.644	6.777	35287*	41	10.740	12.364	35359*	36	5.169	19.264
35046	8	8.050	21.730					35216	15	19.056	6.495	35288	17	12.085	12.684	35360	25	8.200	19.276
35047	8	8.744	21.336					35217*	50	22.368	6.415	35289	16	12.581	12.080	35361	23	11.805	19.097
35048	18	12.200	21.885					35218	31	24.128	6.406	35290	37	14.368	12.785	35362	32	12.854	19.350
35049	12	13.149	21.006					35219	40	0.706	7.078	35291	38	16.676	12.550	35363	29	13.538	19.298
35050	16	14.225	21.510					35220	11	1.858	7.530	35292*	50	16.856	12.474	35364	9	15.706	19.534
35051	9	16.566	21.651																

35372	32	10.560	20.734	35456*	40	5.962	1.191	35528	14	20.502	13.386	35600	16	6.985	25.840	35692	8	21.761	3.866
35373	14	10.700	20.394	35457	12	15.936	1.776	35529	24	23.702	13.740	35601	8	7.092	25.962	35693	20	23.357	3.320
35374	8	11.925	20.522	35458	17	18.344	1.502	35530	11	21.985	14.522	35602	13	11.500	25.184	35694	9	24.295	3.919
35375*	58	19.134	20.700	35459	9	18.827	1.259	35531	10	22.069	14.314	35603	40	18.407	25.376	35695	14	24.685	3.829
35376	12	20.724	20.950	35460	34	6.394	2.963	35532	11	22.134	14.494	35604	12	19.742	25.651	35696	10	0.397	4.009
35377	8	7.103	21.571	35461	17	7.776	2.441	35533	13	22.225	14.748	35605	13	22.195	25.574	35697*	48	6.667	4.438
35378	24	15.696	21.624	35462	8	10.866	2.654	35534	8	24.226	14.674	35606	56	22.787	25.402	35698	8	7.022	4.098
35379	10	16.674	21.568	35463	14	15.884	2.361	35535	16	25.349	14.494					35699	38	9.656	4.610
35380	9	17.684	21.396	35464	11	21.046	2.607	35536	11	3.024	15.526					35700	11	11.320	4.814
35381	8	19.117	21.297	35465	34	23.346	2.596	35537*	22	4.652	15.852					35701	8	13.226	4.289
35382	8	21.908	21.696	35466	22	0.218	3.000	35538	16	3.794	16.568					35702	30	15.034	4.672
35383	11	22.264	21.234	35467*	58	11.372	3.407	35539*	38	5.995	16.223					35703	18	15.473	4.605
35384	13	23.284	21.184	35468	8	12.668	3.874	35540*	72	8.162	16.214					35704	24	15.876	4.118
35385	11	1.274	22.334	35469	12	18.956	3.722	35541	12	8.198	16.714					35705	9	15.970	4.610
35386	18	5.424	22.804	35470	40	21.917	3.065	35542*	37	9.406	16.852					35706	8	16.385	4.837
35387	16	8.868	22.858	35471	8	22.725	3.846	35543	9	10.314	16.382					35707	42	16.686	4.378
35388	42	9.530	22.086	35472	36	6.462	4.845	35544	28	13.750	16.274					35708	8	19.907	4.926
35389	14	9.720	22.276	35473	10	8.834	4.744	35545	24	16.715	16.966					35709	8	6.567	5.478
35390	9	12.933	22.848	35474	20	11.453	4.635	35546	26	19.995	16.054					35710	14	11.740	5.054
35391	8	3.438	23.642	35475	11	21.744	4.919	35547	17	23.894	16.214					35711	8	15.807	5.192
35392	15	6.824	23.150	35476	22	9.572	5.292	35548	20	5.502	17.332					35712	11	18.988	5.420
35393	8	12.050	23.186	35477	16	18.481	5.200	35549	10	7.058	17.028					35713	8	19.338	5.431
35394	39	17.135	23.090	35478	10	19.680	5.676	35550	16	11.384	17.818					35714	36	23.026	5.356
35395*	47	19.425	23.760	35479	10	19.716	5.262	35551	14	11.852	17.996					35715	30	24.780	5.456
35396	10	23.220	23.648	35480	44	0.016	6.312	35552*	44	16.958	17.910					35716	8	25.208	5.248
35397	48	25.566	23.225	35481	13	1.778	6.276	35553*	78	18.766	17.734					35717	10	0.126	6.910
35398	21	1.278	24.370	35482	34	4.239	6.113	35554*	42	19.330	17.125					35718	15	0.738	6.240
35399	8	4.536	24.274	35483	12	7.985	6.815	35555	12	19.388	17.675					35719	10	1.756	6.820
35400	8	6.814	24.070	35484	19	14.944	6.775	35556	8	24.072	17.484					35720	8	3.510	6.723
35401	10	8.370	24.373	35485	9	22.424	6.750	35557	10	3.702	18.174					35721*	63	14.863	6.446
35402	21	8.958	24.234	35486	13	23.043	6.086	35558	16	6.422	18.335					35722*	100	14.932	6.474
35403*	43	9.374	24.483	35487	12	2.128	7.895	35559*	58	9.479	18.534					35723	20	17.700	6.501
35404	9	10.781	24.863	35488	8	4.356	7.518	35560*	24	15.850	18.535					35724	13	17.880	6.554
35405	36	12.414	24.830	35489	12	6.752	7.626	35561	15	17.253	18.956					35725	17	20.964	6.878
35406*	50	14.175	24.660	35490	13	10.814	7.448	35562*	19	19.921	18.458					35726	10	2.384	7.326
35407	8	17.712	24.268	35491	15	11.627	7.401	35563	18	20.635	18.914					35727	13	3.914	7.688
35408	8	24.308	24.322	35492	10	12.024	7.204	35564	12	21.732	18.315					35728	8	4.789	7.616
35409	24	24.992	24.316	35493	20	14.689	7.448	35565	14	23.496	18.726					35729	17	9.695	7.980
35410	30	1.414	25.246	35494	13	18.106	7.815	35566	11	3.116	19.814					35730	8	11.807	7.697
35411	34	2.584	25.572	35495*	40	20.706	7.008	35567	29	4.048	19.186					35731	8	13.170	7.180
35412	34	3.550	25.032	35496	10	3.041	8.941	35568	28	16.314	19.412					35732	9	13.642	7.873
35413	32	3.958	25.267	35497	9	5.296	8.592	35569	18	17.682	19.585					35733	8	20.792	7.618
35414	36	10.784	25.350	35498	12	15.422	8.064	35570	12	21.280	19.438					35734	12	22.203	7.250
35415	42	15.432	25.666	35499*	78	16.064	8.558	35571	8	25.116	19.934					35735	13	24.254	7.440
35416	36	18.100	25.408	35500	32	18.593	8.349	35572	15	25.802	19.558					35736	8	4.756	8.580
35417	9	19.894	25.800	35501	15	0.898	9.508	35573*	44	7.656	20.037					35737	10	6.277	8.500
35418	9	20.115	25.294	35502	11	4.954	9.454	35574	13	11.835	20.202					35738	8	7.593	8.958
35419	10	21.480	25.022	35503*	67	7.471	9.146	35575	13	16.393	20.435					35739	19	9.078	8.725
				35504	34	7.915	9.425	35576	9	0.142	21.134					35740	8	9.242	8.154
				35505*	72	9.092	9.360	35577	9	1.162	21.074					35741*	36	10.482	8.380
				35506	13	12.475	9.466	35578	17	6.042	21.362					35742	13	11.560	8.118
				35507	16	17.751	9.592	35579	11	7.304	21.854					35743	8	13.698	8.628
				35508	12	19.444	9.976	35580	11	11.621	21.702					35744	8	13.843	8.538
				35509	10	21.415	9.119	35581	10	17.053	21.658					35745	8	14.656	8.820
				35510	18	21.913	9.877	35582	8	7.328	22.724					35746	15	15.982	8.347
				35511	12	2.317	10.997	35583	8	9.551	22.586					35747	9	16.110	8.242
				35512	16	7.124	10.924	35584	12	10.412	22.615					35748	8	20.272	8.346
				35513	19	8.202	11.112	35585	11	13.262	22.109					35749*	55	21.067	8.882
				35514*	80	10.800	11.874	35586	31	25.026	22.206					35750	8	8.330	9.246
				35515	22	10.974	11.764	35587	36	3.475	23.073					35751	8	11.504	9.944
				35516*	36	12.100	11.100	35588*	36	5.838	23.558					35752	39	13.541	9.040
				35517	15	12.925	11.136	35589	9	10.591	23.976					35753	15	14.373	9.227
				35518	9	14.204	11.538	35590	26	12.525	23.816					35754	12	14.941	9.064
				35519	15	3.148	12.300	35591	10	17.462	23.015					35755	8	15.462	9.291
				35520	12	4.398	12.525	35592	20	22.542	23.598					35756	15	17.884	9.054
				35521	22	15.913	12.360	35593	12	22.724	23.210					35757	43	21.668	9.864
				35522	26	17.696	12.986	35594	11	23.957	23.304					35758	8	23.394	9.058
				35523	9	23.143	12.250	35595	21	25.044	23.749					35759	25	23.677	9.850
				35524	10	25.513	12.244	35596	14	2.919	24.174					35760	8	2.340	10.660
				35525*	36	1.626	13.824	35597	8	18.528	24.542					35761	9	5.177	10.929
				35526	13	3.376	13.752	35598	13	22.198	24.388					35762	17	7.512	10.522
				35527	14	18.794	13.262	35599	36	23.394	24.238					35763	12	8.877	10.830

R.A. 12^h 48^m

Plate 641;

35764	8	9.214	10.233	35836*	35	5.294	16.475	35908	11	23.634	22.976	35961	9	16.092	0.526	36033	12	14.606	8.531
35765	16	9.505	10.245	35837	10	8.516	16.779	35909	27	0.422	23.751	35962	36	13.121	1.344	36034	9	16.046	8.311
35766	8	10.790	10.953	35838	9	9.236	16.622	35910	17	0.600	23.362	35963	12	16.476	1.924	36035	13	16.894	8.427
35767	11	13.163	10.019	35839	23	10.986	16.582	35911	13	1.836	23.445	35964	36	3.683	2.811	36036	9	18.095	8.474
35768	10	13.326	10.566	35840	25	14.794	16.220	35912	22	2.927	23.875	35965	12	5.044	2.585	36037	8	1.068	9.596
35769	9	13.698	10.304	35841	8	15.761	16.718	35913	30	4.530	23.536	35966	8	6.612	2.646	36038	8	6.478	9.537
35770*	62	17.088	10.168	35842	8	18.491	16.279	35914	10	6.678	23.756	35967	8	7.371	2.220	36039	24	7.537	9.560
35771	20	20.102	10.392	35843	8	19.760	16.905	35915	9	9.414	23.200	35968	8	9.393	2.556	36040	26	8.332	9.790
35772	18	21.788	10.980	35844	8	20.900	16.745	35916	19	9.908	23.516	35969	12	11.135	2.365	36041	8	15.994	9.296
35773	20	22.130	10.588	35845	28	21.814	16.041	35917	12	12.218	23.614	35970	8	15.136	2.472	36042	20	17.282	9.032
35774	8	7.232	11.660	35846	11	22.340	16.217	35918	24	12.576	23.097	35971	10	20.215	2.205	36043	12	17.656	9.172
35775	9	9.726	11.050	35847	10	1.887	17.628	35919	21	14.654	23.060	35972*	56	20.486	2.050	36044	9	17.823	9.824
35776*	68	12.768	11.938	35848	8	3.936	17.546	35920	22	16.870	23.190	35973	34	23.065	2.215	36045	8	19.776	9.194
35777	8	14.299	11.245	35849*	52	9.160	17.104	35921*	44	18.028	23.266	35974*	64	23.262	2.686	36046	17	20.195	9.434
35778	14	17.115	11.980	35850	10	14.940	17.830	35922	13	19.569	23.994	35975	24	0.974	3.856	36047	32	21.629	9.886
35779	11	18.640	11.490	35851	23	16.506	17.429	35923	14	0.090	24.549	35976	14	5.514	3.929	36048	8	22.118	9.270
35780	24	19.266	11.416	35852	8	16.856	17.188	35924	8	1.267	24.681	35977	32	6.034	3.350	36049	76	25.272	9.524
35781	8	20.742	11.794	35853	8	17.658	17.880	35925	46	1.276	24.385	35978*	46	6.456	3.212	36050	22	1.354	10.384
35782	12	24.173	11.114	35854	8	17.972	17.525	35926	8	3.645	24.058	35979	8	10.100	3.000	36051	8	4.696	10.644
35783	18	25.446	11.106	35855	8	19.320	17.930	35927	8	4.720	24.888	35980	8	10.256	3.213	36052	26	5.342	10.332
35784	11	0.904	12.400	35856	18	25.069	17.689	35928	8	10.196	24.918	35981	8	11.397	3.089	36053	8	11.082	10.539
35785	10	3.274	12.370	35857	17	1.322	18.870	35929	12	11.040	24.618	35982	19	12.794	3.305	36054	11	13.306	10.238
35786*	53	5.170	12.960	35858	18	3.950	18.744	35930	8	13.031	24.279	35983	10	13.978	3.638	36055	12	17.672	10.390
35787	10	5.441	12.542	35859	24	4.080	18.494	35931	9	18.012	24.690	35984*	50	19.672	3.791	36056	8	17.941	10.500
35788	8	7.138	12.196	35860	8	4.080	18.105	35932	11	19.910	24.215	35985	8	23.358	3.676	36057	10	18.479	10.406
35789*	40	18.323	12.420	35861	23	9.300	18.266	35933	10	20.730	24.530	35986	17	24.114	3.457	36058	17	19.065	10.356
35790	10	18.660	12.590	35862	8	9.316	18.329	35934	10	23.847	24.262	35987	32	24.436	3.238	36059	8	20.286	10.912
35791	14	20.638	12.292	35863	8	13.298	18.850	35935	16	0.100	25.729	35988	12	24.626	3.667	36060	32	21.688	10.156
35792*	42	22.960	12.920	35864	17	22.364	18.120	35936	68	0.682	25.555	35989	11	1.914	4.444	36061	11	24.484	10.240
35793	8	23.578	12.828	35865	41	22.372	18.332	35937	22	4.022	25.895	35990	22	2.306	4.354	36062	10	1.864	11.637
35794	8	25.970	12.292	35866	15	25.314	18.853	35938	10	4.272	25.617	35991	8	4.098	4.284	36063	14	3.135	11.624
35795	27	1.478	13.888	35867	12	25.327	18.690	35939	8	6.810	25.584	35992	8	10.708	4.872	36064	17	4.391	11.576
35796	8	2.232	13.212	35868	15	3.638	19.680	35940	8	9.725	25.388	35993	20	16.836	4.854	36065	8	6.154	11.786
35797*	44	6.615	13.742	35869	8	7.854	19.694	35941	8	11.836	25.790	35994	8	17.693	4.837	36066	22	6.627	11.115
35798	12	12.480	13.848	35870	16	10.215	19.910	35942	8	17.920	25.255	35995	28	18.046	4.000	36067	8	11.744	11.864
35799	10	12.666	13.410	35871	8	10.926	19.696	35943	73	21.306	25.117	35996	19	20.166	4.197	36068	8	13.488	11.254
35800	10	14.278	13.877	35872	8	11.476	19.122					35997	14	20.493	4.214	36069	10	14.329	11.116
35801	8	15.698	13.322	35873	43	15.903	19.207					35998	24	20.566	4.827	36070	8	15.795	11.112
35802	8	16.330	13.727	35874*	46	19.050	19.268					35999	8	20.680	4.771	36071*	56	17.216	11.604
35803	8	16.785	13.726	35875	9	19.546	19.578					36000	36	0.658	5.894	36072	14	21.164	11.232
35804	8	22.429	13.964	35876	8	20.914	19.082					36001	30	2.414	5.976	36073	12	22.252	11.134
35805	13	0.012	14.910	35877	19	23.560	19.440					36002	8	6.546	5.575	36074	8	23.606	11.566
35806	19	3.133	14.621	35878	8	24.872	19.248					36003	8	7.857	5.236	36075	8	1.714	12.525
35807	21	3.882	14.747	35879	50	25.802	19.936					36004	8	10.646	5.223	36076	8	3.673	12.801
35808	25	6.468	14.962	35880	8	0.304	20.492					36005*	58	13.056	5.108	36077	8	5.977	12.684
35809	13	7.092	14.095	35881	11	2.957	20.062					36006	8	13.088	5.188	36078	36	9.821	12.366
35810	33	7.744	14.311	35882	22	7.396	20.311					36007*	36	14.295	5.115	36079	14	10.564	12.814
35811	12	10.500	14.909	35883	10	8.510	20.163					36008	12	17.858	5.772	36080	8	12.622	12.026
35812	16	10.602	14.094	35884	13	9.253	20.610					36009*	38	22.556	5.423	36081	8	17.806	12.548
35813	8	14.610	14.748	35885	25	12.151	20.970					36010	9	23.145	5.776	36082	20	20.974	12.256
35814	21	17.470	14.990	35886	8	12.324	20.009					36011	8	25.252	5.417	36083	20	22.648	12.016
35815	11	18.982	14.168	35887	24	19.720	20.926					36012	12	4.137	6.904	36084	8	22.950	12.606
35816	8	19.364	14.088	35888	16	20.358	20.838					36013	9	4.248	6.264	36085	12	23.706	12.847
35817*	46	21.076	14.832	35889	11	22.016	20.374					36014	9	4.332	6.524	36086	44	25.754	12.184
35818	8	25.126	14.724	35890	12	24.860	20.230					36015	9	6.722	6.459	36087	36	0.666	13.458
35819	8	25.930	14.504	35891	8	5.825	21.362					36016	10	9.244	6.334	36088	8	1.288	13.361
35820	11	1.704	15.344	35892	31	6.340	21.492					36017	9	9.323	6.304	36089	8	6.582	13.804
35821	8	4.174	15.326	35893	14	8.052	21.582					36018	9	16.196	6.648	36090	18	8.268	13.414
35822	10	4.984	15.056	35894	17	8.078	21.576					36019	8	17.965	6.478	36091	12	9.336	13.235
35823	11	5.710	15.875	35895	43	8.780	21.090					36020	8	18.536	6.380	36092*	34	9.934	13.010
35824	10	7.626	15.508	35896	9	13.347	21.312					36021	11	1.906	7.966	36093	18	15.085	13.238
35825	23	8.668	15.738	35897	8	17.409	21.491					36022	8	4.638	7.762	36094	14	19.076	13.806
35826	8	12.384	15.571	35898	8	17.841	21.610					36023	8	7.366	7.567	36095	8	19.441	13.682
35827	14	12.422	15.110	35899	13	20.234	21.500					36024	8	9.386	7.475	36096	8	19.918	13.426
35828	9	15.456	15.418	35900	10	22.268	21.482					36025	8	11.214	7.328	36097	8	21.228	13.522
35829	15	17.397	15.718	35901	37	2.890	22.332					36026*	52	12.541	7.924	36098	12	21.424	13.080
35830	10	17.996	15.062																

				13				R.A. 18 ^h 4 ^m							
				Plate 653; 1916 March 29.				Provisional Constants.							
				A B C				D E F							
				-02572 +00564 +0741				-00583 -02583 -1367							
				Mag. = 17.5 - 1.05 \sqrt{d}											
				No.	d	x	y								
36105	18	14.814	14.690	36177	24	5.107	21.676	36251	8	7.964	0.525	36307	8	22.773	6.402
36106	26	16.306	14.906	36178	17	6.226	21.774	36252	8	11.728	0.974	36308	40	25.876	6.624
36107	11	17.152	14.398	36179	8	8.176	21.885	36253	8	12.914	0.886	36309	10	5.660	7.267
36108	8	17.884	14.216	36180	8	10.084	21.713	36254	34	20.343	0.180	36310	8	8.046	7.592
36109	10	21.636	14.186	36181	11	10.542	21.444	36255	8	20.824	0.613	36311	8	9.066	7.786
36110	31	1.724	15.896	36182	24	11.538	21.014	36256	8	23.174	0.900	36312	8	10.206	7.340
36111	8	2.854	15.242	36183	8	11.990	21.034	36257	8	25.755	0.816	36313	14	11.065	7.667
36112	11	3.656	15.014	36184	8	18.928	21.206	36258	42	4.764	1.644	36314	10	14.250	7.216
36113	30	11.586	15.481	36185	8	20.065	21.634	36259	40	5.926	1.392	36315	9	15.514	7.974
36114	9	11.678	15.386	36186	30	20.409	21.166	36260	10	9.434	1.378	36316	24	16.130	7.197
36115	8	11.848	15.526	36187	8	0.064	22.026	36261	38	19.997	1.120	36317	22	18.860	7.660
36116	8	14.098	15.747	36188	13	0.165	22.872	36262	8	20.531	1.844	36318	38	22.214	7.980
36117	8	14.993	15.194	36189	19	5.574	22.092	36263	40	20.550	1.934	36319	8	23.714	7.798
36118	8	18.106	15.258	36190	10	11.218	22.884	36264	8	20.696	1.960	36320	8	24.340	7.278
36119	11	20.872	15.378	36191	24	13.152	22.116	36265	36	23.748	1.285	36321	8	24.952	7.832
36120	12	25.496	15.744	36192	20	13.306	22.338	36266	40	0.626	2.028	36322	32	25.362	7.206
36121	10	0.083	16.763	36193	12	14.976	22.952	36267	78	0.822	2.498	36323	13	4.884	8.824
36122	26	4.491	16.808	36194	8	15.203	22.624	36268	10	7.072	2.661	36324	8	18.886	8.780
36123	8	5.229	16.712	36195	8	16.198	22.014	36269	76	12.088	2.443	36325	23	23.328	8.433
36124	22	10.945	16.884	36196	18	17.049	22.706	36270	8	16.192	2.789	36326	116	2.902	9.312
36125	8	11.464	16.368	36197	8	19.006	22.546	36271	9	16.542	2.546	36327	8	20.006	9.964
36126	28	11.906	16.622	36198	8	0.808	23.603	36272	8	18.614	2.678	36328	33	25.738	9.526
36127	20	12.145	16.855	36199	9	1.446	23.506	36273	8	20.075	2.356	36329	8	25.963	9.806
36128	8	12.862	16.654	36200	12	4.010	23.598	36274	8	20.545	2.841	36330	8	2.131	10.036
36129	8	17.201	16.885	36201	40	5.478	23.890	36275	8	24.806	2.933	36331	8	7.944	10.994
36130	16	19.016	16.674	36202	8	6.223	23.710	36276	11	1.688	3.262	36332	40	20.724	10.903
36131	11	21.582	16.884	36203	20	8.361	23.456	36277	40	2.008	3.038	36333	40	23.552	10.602
36132	11	23.539	16.718	36204	22	8.372	23.984	36278	39	13.120	3.155	36334	15	0.315	11.835
36133	56	25.290	16.146	36205	38	8.606	23.734	36279	8	16.718	3.031	36335	54	3.414	11.970
36134	11	25.827	16.519	36206	56	9.924	23.836	36280	13	19.520	3.911	36336	12	5.274	11.029
36135	10	4.701	17.304	36207	28	13.784	23.678	36281	11	21.568	3.807	36337	8	8.305	11.086
36136	8	5.770	17.462	36208	19	13.986	23.844	36282	13	4.032	4.927	36338	9	9.457	11.588
36137	14	11.443	17.124	36209	36	14.706	23.395	36283	10	5.192	4.429	36339	16	13.518	11.574
36138	32	13.452	17.145	36210	30	16.736	23.475	36284	20	14.572	4.465	36340	8	20.526	11.739
36139	8	17.336	17.640	36211	8	18.159	23.580	36285	48	19.296	4.279	36341	8	22.128	11.926
36140	17	17.472	17.136	36212	8	19.131	23.462	36286	8	20.598	4.252	36342	32	23.614	11.566
36141	34	17.718	17.975	36213	12	19.148	23.554	36287	19	21.900	4.234	36343	8	23.923	11.469
36142	8	18.224	17.782	36214	24	20.064	23.410	36288	9	25.880	4.265	36344	8	25.270	11.163
36143	8	22.546	17.654	36215	34	23.750	23.005	36289	45	0.149	5.241	36345	8	0.620	12.420
36144	56	24.458	17.936	36216	11	1.672	24.792	36290	9	0.743	5.590	36346	10	1.379	12.656
36145	16	0.124	18.663	36217	18	5.035	24.578	36291	9	5.374	5.840	36347	32	2.118	12.862
36146	38	0.132	18.876	36218	12	5.625	24.094	36292	15	6.815	5.084	36348	58	4.304	12.513
36147	16	2.826	18.206	36219	7	6.968	24.914	36293	48	10.438	5.160	36349	8	10.410	12.685
36148	9	3.008	18.234	36220	24	8.095	24.715	36294	8	15.954	5.179	36350	56	15.594	12.016
36149	8	4.666	18.494	36221	32	8.688	24.737	36295	9	16.385	5.025	36351	36	17.468	12.059
36150	14	4.890	18.865	36222	8	12.686	24.054	36296	11	17.447	5.924	36352	8	21.406	12.703
36151	16	6.156	18.064	36223	36	16.348	24.409	36297	8	17.900	5.460	36353	40	25.306	12.787
36152	10	7.230	18.054	36224	12	19.218	24.655	36298	8	20.426	5.252	36354	8	3.694	13.674
36153	19	1.332	19.972	36225	17	19.584	24.484	36299	8	21.103	5.725	36355	9	12.108	13.779
36154	17	3.084	19.366	36226	8	21.777	24.182	36300	8	21.940	5.246	36356	9	14.259	13.144
36155	13	3.094	19.206	36227	9	22.352	24.893	36301	35	22.242	5.160	36357	8	17.105	13.014
36156	22	4.892	19.822	36228	14	24.884	24.482	36302	8	25.427	5.196	36358	37	19.678	13.652
36157	14	8.224	19.366	36229	8	4.662	25.342	36303	82	8.612	6.296	36359	12	21.434	13.360
36158	13	8.596	19.224	36230	8	5.610	25.152	36304	9	11.582	6.275	36360	8	21.882	13.643
36159	8	10.637	19.952	36231	36	10.574	25.605	36305	15	15.107	6.505	36361	8	25.284	13.988
36160	8	12.925	19.978	36232	32	10.706	25.519	36306	9	17.100	6.126	36362	41	5.611	14.744
36161	9	13.754	19.873	36233	20	10.874	25.776					36363	8	6.674	14.654
36162	8	15.505	19.028	36234	29	12.314	25.426					36364	41	13.384	14.650
36163	8	16.036	19.865	36235	9	14.114	25.142					36365	8	24.306	14.828
36164	9	16.698	19.494	36236	11	16.942	25.284					36366	8	24.706	14.488
36165	60	17.726	19.076									36367	43	25.425	14.036
36166	36	22.046	19.702									36368	76	2.994	15.936
36167	12	2.647	20.752									36369	10	3.202	15.532
36168	40	3.576	20.446									36370	11	13.082	15.167
36169	10	4.602	20.345									36371	9	14.578	15.180
36170	8	5.099	20.664									36372	53	17.866	15.600
36171	9	5.759	20.276									36373	10	21.542	15.746
36172	14	6.598	20.932									36374	40	21.723	15.832
36173	19	8.285	20.256									36375	45	22.070	15.717
36174	11	15.898	20.849									36376	9	24.062	15.964
36175	10	19.216	20.971									36377	120	24.226	15.892
36176	8	25.943	20.277									36378	8	25.016	15.744

R.A. 13 ^h 12 ^m				R.A. 13 ^h 20 ^m			
Plate 718; 1916 May 6.				Plate 680; 1916 April 11.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
-02581	+00451	+2385		-02549	+00848	+1884	
D	E	F		D	E	F	
-00455	-02608	-2413		-00856	-02595	-2913	
Mag.=16.8-1.05√d				Mag.=16.9-1.05√d			
No.	d	x	y	No.	d	x	y
36501	11	0.954	0.935	36801	11	4.266	0.602
36502	9	3.539	0.828	36802	19	8.323	0.454
36503	8	5.780	0.556	36803	9	9.044	0.385
36504*	45	7.348	0.030	36804	8	14.884	0.364
36505	20	9.734	0.426	36805	10	17.005	0.074
36506	10	14.399	0.561	36806	8	20.876	0.578
36507	8	14.884	0.521	36807	35	22.014	0.803
36508	8	16.462	0.533	36808	19	22.396	0.624
36509	20	1.535	1.317	36809	10	24.805	0.706
36510	19	4.225	1.810	36810	8	4.090	1.545
36511	11	5.106	1.106	36811	8	7.585	1.065
36512	9	20.650	1.890	36812	12	7.876	1.996
36513	8	21.820	1.830	36813	8	10.721	1.940
36514	11	2.606	2.953	36814	8	12.444	1.215
36515	21	4.690	2.913	36815	27	13.100	1.700
36516	13	5.714	2.371	36816	23	13.498	1.266
36517	30	14.727	2.409	36817	20	15.686	1.944
36518	13	15.150	2.869	36818	22	16.345	1.976
36519	9	17.280	2.581	36819	9	20.434	1.921
36520	8	18.698	2.333	36820	13	24.465	1.116
36521	17	4.215	3.522	36821	16	6.185	2.288
36522*	40	5.356	3.324	36822	10	12.064	2.583
36523	8	9.410	3.340	36823	14	12.238	2.272
36524	8	14.575	3.583	36824	12	14.539	2.685
36525	11	15.856	3.738	36825	20	16.426	2.618
36526	9	16.464	3.309	36826	10	18.726	2.451
36527	12	21.040	3.646	36827	8	18.893	2.329
36528	8	21.603	3.575	36828	10	24.176	2.911
36529	14	23.754	3.323	36829	8	25.746	2.330
36530	8	3.692	4.268	36830	8	1.060	3.429
36531	12	13.334	4.392	36831	11	1.371	3.377
36532	8	15.584	4.475	36832*	100	6.346	3.116
36533	19	16.512	4.562	36833	8	9.075	3.896
36534	20	21.720	4.684	36834	14	13.984	3.821
36535	14	21.813	4.302	36835	20	17.626	3.111
36536	20	0.066	5.200	36836	8	17.778	3.882
36537	8	3.252	5.210	36837	14	23.031	3.695
36538	16	5.455	5.998	36838	20	24.455	3.294
36539	8	9.663	5.757	36839	10	25.002	3.220
36540	14	10.866	5.636	36840	10	25.535	3.568
36541	9	11.167	5.630	36841	8	6.042	4.947
36542*	43	12.282	5.066	36842	20	6.276	4.316
36543	13	12.624	5.858	36843	10	6.426	4.243
36544	8	13.473	5.858	36844*	40	6.540	4.485
36545	20	20.167	5.604	36845	8	13.840	4.176
36546	24	21.924	5.238	36846	20	3.205	5.101
36547	23	25.564	5.072	36847*	40	3.712	5.418
36548	8	0.609	6.436	36848	10	4.390	5.184
36549	24	3.712	6.630	36849	8	10.696	5.570
36550	8	6.470	6.886	36850	8	14.149	5.907
36551	17	7.843	6.136	36851	9	14.686	5.240
36552	8	13.224	6.160	36852	8	15.461	5.008
36553	8	13.440	6.710	36853	8	17.531	5.835
36554	22	15.914	6.888	36854*	65	17.953	5.325
36555	10	19.565	6.458	36855	8	22.762	5.254

36856	12	23.366	5.602	36928	8	10.262	13.274	37000	9	24.169	19.206	R.A. 13 ^h 28 ^m Plate 654; 1916 March 29. Provisional Constants. A B C -0.02538 +0.00731 +.1523 D E F -0.00696 -0.02612 -.2158 Mag.=16.8-1.05√d	37156	17	24.220	5.749
36857*	60	5.597	6.584	36929*	42	13.659	13.040	37001	12	24.760	19.870		37157	27	0.108	6.386
36858*	48	5.604	6.999	36930	12	15.784	13.650	37002	10	25.091	19.240		37158	42	1.310	6.778
36859	8	12.124	6.623	36931	8	16.266	13.247	37003	8	25.949	19.400		37159	21	6.380	6.435
36860	11	18.358	6.026	36932	14	17.435	13.855	37004	8	2.536	20.642		37160	8	10.729	6.533
36861*	45	19.108	6.550	36933	9	18.509	13.525	37005	8	4.414	20.986		37161	40	10.964	6.706
36862	8	19.265	6.850	36934	8	20.348	13.283	37006*	46	6.784	20.276		37162	25	1.160	7.078
36863	12	21.092	6.956	36935	12	25.167	13.436	37007	11	7.195	20.196		37163	18	5.540	7.610
36864	12	21.544	6.134	36936	10	25.944	13.384	37008	10	7.394	20.994		37164	33	7.285	7.151
36865	21	22.465	6.112	36937*	100	2.987	14.936	37009	13	15.868	20.665		37165	8	11.922	7.184
36866	23	23.510	6.813	36938	35	5.891	14.460	37010	12	17.328	20.998	37166	8	12.347	7.072	
36867	40	23.664	6.514	36939	11	9.596	14.842	37011	17	20.910	20.100	37167	18	14.484	7.731	
36868	8	1.796	7.951	36940	9	10.296	14.684	37012*	40	21.404	20.685	37168	39	15.230	7.936	
36869	10	8.882	7.057	36941	8	11.428	14.071	37013	17	23.626	20.000	37169	14	17.729	7.792	
36870	11	9.768	7.442	36942	8	16.321	14.711	37014	10	23.904	20.090	37170	30	20.558	7.745	
36871	8	10.400	7.062	36943*	46	17.758	14.245	37015	12	3.200	21.476	37171	10	20.560	7.730	
36872	8	15.725	7.166	36944	8	19.026	14.075	37016	29	4.107	21.916	37172	10	21.416	7.304	
36873	8	18.451	7.235	36945	8	20.947	14.115	37017	20	5.174	21.484	37173	15	21.776	7.098	
36874	16	19.705	7.496	36946	12	22.725	14.984	37018	28	6.736	21.984	37174	10	24.164	7.540	
36875	8	19.817	7.558	36947	8	24.310	14.860	37019	25	7.583	21.316	37175	11	24.484	7.432	
36876	8	25.537	7.348	36948*	74	24.336	14.685	37020	10	10.971	21.586	37176	52	0.140	8.892	
36877	8	2.164	8.844	36949	8	24.905	14.033	37021	12	12.886	21.667	37177	22	0.196	8.858	
36878	20	4.632	8.457	36950	12	0.071	15.565	37022	8	13.820	21.550	37178	8	0.756	8.563	
36879*	51	6.110	8.580	36951	29	2.310	15.310	37023	8	16.104	21.691	37179	13	10.110	8.373	
36880	10	14.529	8.168	36952	8	4.629	15.297	37024	9	20.026	21.775	37180	11	11.596	8.990	
36881*	48	22.475	8.618	36953	8	6.360	15.454	37025	8	0.228	22.946	37181	8	14.838	8.492	
36882	21	22.527	8.586	36954	11	6.732	15.166	37026	40	1.138	22.138	37182	20	16.746	8.270	
36883	8	23.092	8.297	36955	8	7.530	15.288	37027	8	2.686	22.480	37183	11	23.264	8.634	
36884	10	4.870	9.656	36956	12	10.632	15.050	37028	8	4.469	22.350	37184	14	23.328	8.130	
36885*	47	6.002	9.686	36957	10	13.528	15.790	37029	11	17.336	22.325	37185	12	23.355	8.512	
36886	11	7.578	9.834	36958	8	14.553	15.348	37030	8	19.302	22.499	37186	15	25.822	8.964	
36887*	60	8.658	9.166	36959	10	18.833	15.204	37031	8	21.266	22.243	37187	25	0.928	9.320	
36888	8	12.300	9.026	36960	8	19.778	15.372	37032	32	22.506	22.825	37188	23	2.259	9.440	
36889	8	20.099	9.966	36961	12	21.874	15.993	37033	10	24.057	22.046	37189	10	2.702	9.502	
36890*	43	20.231	9.708	36962	8	4.927	16.904	37034	9	24.275	22.735	37190	8	2.798	9.478	
36891	21	23.255	9.054	36963	33	6.200	16.916	37035*	100	2.322	23.689	37191	42	4.063	9.648	
36892	11	23.749	9.875	36964	12	6.213	16.904	37036	8	4.470	23.698	37192	8	5.025	9.396	
36893	20	24.585	9.185	36965	20	6.515	16.451	37037*	29	5.762	23.422	37193	13	6.248	9.094	
36894	10	25.028	9.250	36966	26	8.115	16.465	37038	8	15.842	23.250	37194	8	13.618	9.522	
36895	10	25.125	9.228	36967	8	8.325	16.240	37039	10	18.511	23.175	37195	25	13.652	9.924	
36896	20	0.355	10.765	36968	8	8.936	16.265	37040	12	24.001	23.682	37196	9	14.724	9.152	
36897	11	3.826	10.054	36969	9	15.486	16.720	37041	8	24.100	23.975	37197	8	14.733	9.607	
36898	9	6.220	10.516	36970	20	17.585	16.246	37042	12	25.182	23.875	37198	8	18.604	9.984	
36899	21	6.900	10.023	36971	13	18.574	16.740	37043	8	1.628	24.555	37199	15	19.256	9.282	
36900	12	7.700	10.892	36972	11	18.903	16.419	37044	8	3.546	24.044	37200	12	1.429	10.134	
36901	8	7.895	10.206	36973	10	22.305	16.352	37045	20	4.800	24.706	37201	8	8.134	10.138	
36902	8	9.748	10.206	36974	22	25.187	16.000	37046	14	5.422	24.665	37202	9	9.808	10.550	
36903*	40	10.083	10.768	36975	9	0.610	17.974	37047	8	5.511	24.068	37203	45	14.226	10.096	
36904	9	11.524	10.645	36976	9	4.452	17.818	37048	9	5.926	24.998	37204	9	19.971	10.312	
36905	15	15.288	10.080	36977	8	6.231	17.155	37049	8	5.928	24.830	37205	9	20.124	10.322	
36906	8	15.404	10.352	36978	10	7.231	17.078	37050	16	8.046	24.275	37206	8	22.263	10.214	
36907	10	18.874	10.696	36979	16	12.172	17.674	37051	10	8.545	24.884	37207	8	25.096	10.450	
36908	25	20.494	10.660	36980	8	12.720	17.750	37052	10	11.628	24.104	37208	10	1.730	11.712	
36909	10	1.802	11.865	36981	10	13.294	17.894	37053	8	15.376	24.864	37209	23	3.888	11.762	
36910	8	14.367	11.091	36982	8	14.085	17.666	37054	8	18.634	24.344	37210	16	4.559	11.554	
36911	8	17.248	11.272	36983	8	18.724	17.926	37055	8	19.985	24.448	37211	8	9.315	11.128	
36912	8	20.254	11.754	36984	12	18.734	17.194	37056	20	22.035	24.048	37212	16	10.658	11.458	
36913	18	22.025	11.969	36985	8	20.560	17.041	37057	12	22.446	24.186	37213	20	15.489	11.180	
36914	18	22.068	11.418	36986	8	1.810	18.455	37058	8	24.350	24.404	37214	16	16.462	11.170	
36915	8	22.194	11.113	36987	8	4.128	18.608	37059	20	24.412	24.654	37215	13	16.543	11.688	
36916	9	24.036	11.455	36988	32	6.234	18.462	37060	12	25.523	24.206	37216	9	20.116		

37228	11	14.879	12.006	37300	13	20.750	18.200	37372	12	3.338	24.452	37430	8	15.084	2.891	37502	14	6.844	11.108
37229	17	22.412	12.963	37301	8	21.500	18.569	37373*	86	6.120	24.634	37431	8	19.838	2.372	37503*	38	7.282	11.038
37230	14	24.300	12.704	37302	14	25.502	18.496	37374	17	17.110	24.746	37432	9	1.125	3.305	37504	12	10.492	11.135
37231	10	24.634	12.992	37303	8	0.706	19.911	37375	8	18.476	24.510	37433	12	3.633	3.497	37505	8	16.178	11.128
37232	8	25.635	12.647	37304	10	1.937	19.464	37376	11	21.310	24.365	37434	12	8.354	3.610	37506	16	22.980	11.712
37233	15	2.882	13.688	37305	8	2.842	19.281	37377*	26	21.482	24.922	37435	10	9.136	3.171	37507	8	0.089	12.677
37234	8	3.658	13.626	37306	9	2.860	19.488	37378	25	22.530	24.330	37436	32	9.812	3.344	37508	11	0.333	12.866
37235	8	4.367	13.394	37307	10	3.720	19.640	37379	8	23.890	24.723	37437	10	17.458	3.742	37509	9	3.408	12.052
37236	9	5.399	13.323	37308	14	5.669	19.700	37380	11	4.316	25.702	37438*	48	20.387	3.116	37510	8	7.754	12.644
37237	13	6.410	13.402	37309*	38	6.926	19.087	37381	15	7.682	25.884	37439	23	22.945	3.559	37511	9	8.864	12.762
37238	10	9.334	13.528	37310	33	9.304	19.040	37382	8	11.005	25.314	37440*	42	22.995	3.498	37512	36	9.506	12.452
37239	9	11.340	13.082	37311	8	15.126	19.254	37383	9	12.259	25.258	37441	9	23.135	3.812	37513*	72	12.046	12.932
37240	9	11.698	13.460	37312*	77	15.620	19.310	37384	8	13.022	25.120	37442*	36	2.806	4.218	37514	8	17.087	12.824
37241	8	12.378	13.815	37313	10	17.600	19.368	37385	12	14.280	25.840	37443	32	8.357	4.244	37515	11	18.013	12.737
37242	12	16.870	13.312	37314	9	19.682	19.847	37386	14	15.364	25.366	37444*	73	9.562	4.036	37516	26	19.824	12.452
37243	9	17.726	13.452	37315	8	19.839	19.973	37387	22	21.246	25.995	37445	20	12.914	4.440	37517	13	22.076	12.617
37244	8	22.212	13.226	37316	33	20.152	19.147	37388	8	22.220	25.522	37446	8	13.623	4.936	37518	8	22.527	12.616
37245*	76	2.054	14.944	37317	8	21.401	19.307	37389	13	22.642	25.915	37447	14	17.134	4.436	37519	44	24.095	12.874
37246*	140	9.185	14.894	37318	17	0.450	20.132	37390	46	24.162	25.310	37448	10	17.399	4.756	37520	11	24.300	12.266
37247	10	19.961	14.776	37319	18	1.400	20.264					37449	9	17.835	4.986	37521	9	25.002	12.196
37248	28	20.286	14.733	37320	14	1.680	20.350					37450	8	21.486	4.125	37522	8	0.674	13.156
37249	8	20.360	14.466	37321	16	2.532	20.120					37451	12	0.180	5.916	37523	9	3.112	13.440
37250	15	21.366	14.352	37322	14	11.174	20.362					37452	8	2.287	5.016	37524	18	6.804	13.356
37251	8	23.484	14.307	37323	10	14.612	20.400					37453	8	10.134	5.660	37525	8	7.778	13.126
37252	15	0.452	15.254	37324	9	17.639	20.380					37454	8	12.552	5.004	37526	14	8.626	13.541
37253	8	2.610	15.034	37325	12	20.056	20.426					37455	8	12.923	5.966	37527	8	8.768	13.196
37254	8	4.230	15.950	37326	8	20.716	20.040					37456	16	16.678	5.994	37528	15	9.094	13.296
37255	18	7.429	15.050	37327	10	23.286	20.631					37457*	90	19.797	5.726	37529	8	11.690	13.138
37256	10	9.238	15.886	37328	10	5.808	21.290					37458	8	23.296	5.784	37530	8	13.416	13.594
37257	36	11.347	15.620	37329*	43	10.204	21.254					37459	11	2.883	6.064	37531	40	25.612	13.876
37258	8	12.496	15.334	37330*	55	11.930	21.020					37460	12	4.729	6.936	37532	11	3.632	14.160
37259	8	12.827	15.266	37331	8	13.284	21.047					37461	14	12.326	6.494	37533	8	4.264	14.285
37260	11	15.856	15.010	37332	26	20.461	21.600					37462*	60	16.466	6.598	37534	28	5.582	14.418
37261	10	20.237	15.332	37333	8	22.690	21.490					37463	30	16.794	6.414	37535	10	8.444	14.103
37262	17	20.439	15.288	37334	8	23.948	21.369					37464	17	18.822	6.692	37536	8	11.002	14.522
37263	15	21.244	15.848	37335	22	25.643	21.171					37465	8	20.975	6.621	37537	8	11.712	14.423
37264	16	21.912	15.014	37336	19	25.750	21.513					37466	20	24.551	6.814	37538	28	14.235	14.233
37265	11	22.302	15.150	37337	8	25.835	21.048					37467	68	24.695	6.574	37539	11	17.046	14.220
37266	9	22.704	15.544	37338	16	25.994	21.980					37468	8	0.143	6.706	37540	8	19.898	14.077
37267	8	25.979	15.788	37339	10	1.850	22.304					37469	10	0.463	7.596	37541	10	20.762	14.815
37268	10	0.046	16.630	37340	9	2.074	22.990					37470	8	2.294	7.112	37542	11	6.236	15.716
37269	25	2.926	16.248	37341	14	4.440	22.598					37471	8	7.336	7.390	37543	8	11.574	15.102
37270	8	6.900	16.409	37342	8	4.512	22.659					37472*	44	17.498	7.508	37544	24	13.986	15.616
37271	8	7.868	16.703	37343*	40	5.598	22.618					37473	10	21.242	7.822	37545	12	24.538	15.876
37272	10	9.540	16.954	37344	11	8.650	22.594					37474*	34	21.441	7.536	37546	36	0.295	16.854
37273	10	10.146	16.200	37345	27	8.912	22.200					37475	9	3.864	8.726	37547	8	6.058	16.624
37274	13	10.965	16.180	37346	27	17.511	22.670					37476	8	5.688	8.442	37548	8	12.902	16.875
37275	8	12.629	16.989	37347	11	18.378	22.235					37477	8	8.676	8.922	37549	36	14.963	16.807
37276	8	14.243	16.584	37348	10	19.532	22.464					37478	8	14.576	8.198	37550	8	17.049	16.590
37277	33	16.226	16.232	37349	13	19.784	22.383					37479	14	16.436	8.124	37551	8	17.234	16.744
37278	8	17.664	16.215	37350	17	22.462	22.760					37480	8	20.573	8.644	37552	16	18.014	16.942
37279	30	23.646	16.928	37351	17	25.186	22.397					37481	8	22.396	8.596	37553	16	19.328	16.404
37280	33	24.226	16.690	37352	40	0.306	23.100					37482	34	25.517	8.746	37554	16	20.598	16.892
37281	9	4.106	17.190	37353	19	1.808	23.940					37483	11	1.815	9.114	37555	17	24.481	16.882
37282	8	8.360	17.360	37354	26	4.104	23.470					37484	10	8.016	9.254	37556	18	24.566	16.418
37283	8	11.086	17.707	37355	9	6.370	23.932					37485	11	11.568	9.776	37557	8	1.297	17.775
37284	27	13.456	17.160	37356	9	7.115	23.764					37486	18	23.126	9.692	37558	8	2.199	17.683
37285	19	16.387	17.627	37357	18	8.690	23.352					37487	36	24.216	9.548	37559	8	2.728	17.276
37286	16	16.872	17.505	37358	25	8.972	23.866					37488	8	1.101	10.612	37560	50	8.144	17.575
37287	8	17.604	17.016	37359	11	11.222	23.242					37489	18	5.616	10.644	37561*	84	12.468	17.985
37288	12	22.875	17.256	37360	14	13.820	23.352					37490	8	7.045	10.708	37562	8	13.276	17.250
37289	8	25.217	17.624	37361	8	16.927	23.726					37491	12	7.727	10.456	37563	18	15.007	17.086
37290	8	2.400	18.900	37362	22	18.060	23.888					37492	8	10.614	10.350	37564	14	22.420	17.862
37291	12	3.164	18.338	37363	12	18.891	23.561					37493	24	10.660	10.569	37565	8	24.044	17.805
37292*	44	4.112	18.527	37364	10	19.508	23.548					37494	26	11.608	10.734	37566	12	1.594	18.646
37293	20	6.082	18.160	37365	8	20.032	23.908					37495	20	22.672	10.028	37567	22	2.558	18.994
37294	17	10.164	18.896	37366	38	23.886	23.500					37496	11	24.372	10.926	37568	8	7.192	18.699
37295	30	11.542	18.632	37367	13	0.260	24.460					37497	8	0.142	11.835	37569	8	15.412	18.734
37296	40	16.330	18.007																

37574	14	9.095	19.915	R.A. 13 ^h 44 ^m Plate 665; 1916 April 4. Provisional Constants. A B C -0.2572 + 0.0702 +.1786 D E F -0.0734 -0.2603 -1.944 Mag.=16.2-1.05√d	37706	23	22.346	3.355	37778	9	18.300	8.252	37850*	80	21.806	14.861
37575	12	10.846	19.204		37707	9	22.900	3.800	37779	10	19.359	8.985	37851*	44	22.286	14.446
37576*	52	12.065	19.755		37708	11	25.165	3.862	37780	8	19.834	8.714	37852	18	22.680	14.496
37577	18	16.216	19.024		37709	8	0.726	4.785	37781	20	21.210	8.074	37853	9	23.976	14.906
37578	10	20.697	19.254		37710	9	0.882	4.294	37782	8	21.862	8.480	37854	10	25.352	14.440
37579*	44	20.992	19.518		37711*	48	6.188	4.545	37783	15	22.584	8.795	37855	9	14.565	15.673
37580	8	21.333	19.715		37712*	80	7.250	4.938	37784	20	2.584	9.837	37856	12	14.631	15.543
37581	8	24.528	19.940		37713	8	10.638	4.426	37785	24	3.672	9.684	37857	10	15.434	15.762
37582*	62	2.186	20.407		37714	10	10.644	4.292	37786	9	6.003	9.326	37858	12	17.098	15.232
37583	24	2.636	20.943		37715*	21	14.283	4.673	37787	9	6.790	9.550	37859	8	17.645	15.205
37584*	48	3.036	20.364	37716	11	17.810	4.003	37788	9	8.184	9.526	37860	8	19.828	15.235	
37585	8	5.632	20.252	37717	29	18.044	4.715	37789	8	11.853	9.769	37861	9	20.280	15.600	
37586	8	6.326	20.409	37718	9	21.182	4.318	37790	9	14.024	9.420	37862	12	20.760	15.951	
37587	42	7.365	20.836	37719	9	21.782	4.901	37791	8	16.348	9.417	37863	10	25.001	15.750	
37588	8	7.368	20.104	37720	10	23.914	4.954	37792	8	21.304	9.154	37864	10	4.066	16.005	
37589	44	7.956	20.608	37721	13	23.946	4.312	37793	8	22.358	9.200	37865	12	4.100	16.548	
37590	8	11.952	20.856	37722	8	2.706	5.928	37794	21	23.917	9.530	37866	15	6.732	16.238	
37591	36	13.782	20.040	37723	8	6.355	5.440	37795	13	25.272	9.110	37867	16	16.184	16.566	
37592	8	14.133	20.255	37724	8	7.023	5.395	37796	20	2.134	10.180	37868	9	19.104	16.549	
37593	10	22.376	20.096	37725	11	12.928	5.329	37797*	42	7.280	10.211	37869	8	20.068	16.679	
37594	36	24.725	20.548	37726	10	14.135	5.552	37798	9	10.430	10.970	37870	8	20.717	16.746	
37595	8	0.006	21.284	37727	16	15.070	5.777	37799	8	17.522	10.902	37871	20	0.142	17.065	
37596	20	1.758	21.319	37728	9	17.065	5.127	37800	8	17.698	10.382	37872	8	3.594	17.940	
37597	16	1.872	21.659	37729	14	17.142	5.726	37801	13	17.935	10.226	37873	13	4.020	17.008	
37598	12	6.786	21.106	37730	10	17.168	5.725	37802*	60	18.784	10.740	37874	12	5.616	17.166	
37599	8	8.278	21.016	37731	9	17.408	5.145	37803	24	19.425	10.214	37875	11	9.338	17.886	
37600	29	10.548	21.370	37732	8	17.710	5.920	37804	10	19.968	10.266	37876	8	13.782	17.678	
37601	10	14.904	21.236	37733	9	20.630	5.552	37805	9	22.552	10.488	37877	8	15.346	17.215	
37602	17	16.312	21.032	37734	8	24.588	5.194	37806	14	2.460	11.858	37878	8	16.786	17.925	
37603	8	17.964	21.614	37735	37	25.513	5.875	37807	12	3.844	11.058	37879	10	21.115	17.467	
37604	24	21.285	21.028	37736	11	0.400	6.790	37808	8	3.872	11.722	37880	14	1.974	18.014	
37605	8	25.483	21.731	37737	8	0.704	6.952	37809	12	5.989	11.750	37881	8	2.156	18.382	
37606	8	25.867	21.165	37738	8	2.968	6.096	37810	13	7.775	11.565	37882	8	3.495	18.286	
37607	14	1.315	22.548	37739	8	3.260	6.109	37811	8	14.176	11.723	37883	10	9.632	18.534	
37608	9	2.120	22.127	37740	17	3.975	6.945	37812	12	15.028	11.494	37884	10	11.662	18.374	
37609	8	5.781	22.327	37741*	63	4.110	6.704	37813	12	15.978	11.424	37885	8	13.618	18.734	
37610	8	5.805	22.398	37742	11	6.030	6.900	37814	22	20.388	11.298	37886	8	19.817	18.089	
37611	20	13.424	22.475	37743	8	6.807	6.788	37815	10	22.771	11.915	37887	29	20.660	18.925	
37612*	36	13.925	22.804	37744	11	6.816	6.400	37816	18	25.512	11.799	37888	9	22.116	18.027	
37613	8	17.064	22.446	37745	8	8.448	6.276	37817	14	1.570	12.778	37889	10	22.191	18.188	
37614*	42	22.154	22.054	37746	8	9.672	6.208	37818	8	2.018	12.771	37890	14	22.326	18.554	
37615	11	24.386	22.655	37747	8	13.918	6.719	37819	12	3.786	12.398	37891	8	23.766	18.373	
37616	18	25.452	22.285	37748	8	16.146	6.894	37820	10	4.487	12.324	37892	13	0.267	19.426	
37617	36	0.025	23.670	37749	8	19.375	6.520	37821	31	9.250	12.694	37893	40	0.558	19.686	
37618	36	3.214	23.542	37750	11	19.705	6.014	37822	13	9.583	12.258	37894	8	0.906	19.882	
37619	8	6.318	23.344	37751	9	20.678	6.080	37823	8	10.242	12.784	37895*	33	11.227	19.824	
37620	9	10.891	23.616	37752	12	25.504	6.634	37824	9	13.242	12.056	37896	8	12.230	19.555	
37621	16	12.362	23.064	37753	10	0.676	7.987	37825	9	19.217	12.514	37897	8	12.665	19.185	
37622	10	17.956	23.965	37754*	26	0.872	7.702	37826	10	19.542	12.014	37898	8	15.184	19.528	
37623	8	18.239	23.602	37755*	26	5.888	7.325	37827	8	19.600	12.510	37899	10	15.482	19.794	
37624	13	18.544	23.426	37756	10	5.936	7.185	37828	8	23.510	12.860	37900	12	17.920	19.513	
37625	30	19.618	23.524	37757	11	10.005	7.569	37829	11	25.264	12.675	37901	10	1.958	20.250	
37626	8	19.909	23.818	37758	9	10.820	7.552	37830	8	3.525	13.510	37902	35	4.304	20.676	
37627	20	22.225	23.494	37759	12	12.304	7.505	37831	32	3.586	13.012	37903	20	13.101	20.425	
37628	8	2.334	24.676	37760	14	14.847	7.100	37832	40	5.115	13.995	37904	10	14.140	20.712	
37629	11	8.125	25.446	37761	8	17.925	7.697	37833	12	7.895	13.075	37905	8	14.820	20.580	
37630	14	9.144	24.772	37762	17	18.398	7.060	37834*	60	8.712	13.283	37906	8	17.198	20.866	
37631	8	9.690	24.316	37763	10	18.399	7.874	37835	8	11.224	13.225	37907	12	19.125	20.249	
37632	8	9.952	24.178	37764	9	24.483	7.817	37836	8	12.602	13.128	37908	10	24.510	20.085	
37633	10	16.842	24.702	37765	9	0.014	8.818	37837	9	12.718	13.456	37909	60	25.365	20.234	
37634	24	18.356	24.440	37766	8	1.155	8.324	37838	9	13.424	13.488	37910	20	0.874	21.198	

37922	17	22.422	21.639	38006	36	10.570	0.906	38078	8	16.622	7.646	38150	25	25.678	15.738	38222	8	13.214	23.258
37923	10	22.578	21.659	38007	26	5.934	1.386	38079	37	20.840	7.146	38151	8	2.758	16.038	38223	8	14.624	23.186
37924	10	23.940	21.505	38008	9	7.482	1.072	38080	19	23.076	7.238	38152	8	8.210	16.862	38224	42	20.902	23.168
37925*	40	1.751	22.208	38009	11	8.037	1.356	38081	42	23.550	7.821	38153	8	12.948	16.338	38225	33	24.004	23.600
37926	10	3.994	22.784	38010	10	12.470	1.070	38082	34	7.077	8.854	38154	10	21.610	16.386	38226	40	25.237	23.274
37927	16	5.055	22.404	38011	34	20.996	1.574	38083	40	9.355	8.161	38155	43	23.932	16.146	38227	38	25.681	23.652
37928	11	5.685	22.925	38012	30	0.116	2.330	38084	40	10.084	8.464	38156	9	13.876	17.964	38228	38	4.660	24.924
37929*	36	7.156	22.247	38013	38	0.808	2.808	38085	37	10.954	8.056	38157	34	14.016	17.797	38229	40	5.144	24.864
37930	8	9.804	22.100	38014	40	1.112	2.557	38086	35	16.316	8.769	38158	46	17.108	17.156	38230	35	7.112	24.186
37931	12	11.380	22.114	38015	21	13.173	2.016	38087	11	16.900	8.928	38159	9	17.412	17.584	38231	9	8.664	24.742
37932	13	12.829	22.608	38016	10	15.298	2.202	38088*	56	17.158	8.004	38160	45	18.767	17.246	38232	34	9.439	24.795
37933*	34	14.875	22.381	38017*	54	15.710	2.382	38089	8	20.637	8.204	38161	12	22.350	17.700	38233	41	13.791	24.970
37934	12	16.960	22.366	38018*	46	16.939	2.423	38090*	45	22.465	8.036	38162	37	0.122	18.882	38234	38	17.659	24.388
37935	9	17.078	22.066	38019	8	18.515	2.490	38091	8	23.792	8.075	38163	8	1.562	18.680	38235	11	18.876	24.262
37936	14	17.437	22.541	38020	10	24.184	2.808	38092	35	0.236	9.117	38164	8	10.028	18.448	38236	41	22.073	24.664
37937	10	17.972	22.902	38021	39	24.764	2.705	38093	39	1.580	9.837	38165	9	11.173	18.258	38237	8	25.054	24.230
37938	10	22.877	22.416	38022	10	24.917	2.803	38094	26	2.931	9.398	38166	8	18.712	18.804	38238	8	2.584	25.692
37939	12	23.513	22.426	38023	48	0.324	3.079	38095	25	5.632	9.505	38167	37	21.012	18.499	38239	8	3.562	25.507
37940	9	24.248	22.796	38024*	47	5.398	3.714	38096*	77	8.185	9.724	38168	26	24.018	18.513	38240	41	4.400	25.084
37941	15	1.844	23.648	38025	8	5.756	3.358	38097	8	9.901	9.438	38169	24	24.096	18.266	38241	34	4.624	25.044
37942	9	3.875	23.322	38026	31	5.874	3.193	38098	37	22.805	9.117	38170	40	24.868	18.624	38242*	41	5.974	25.222
37943	11	5.711	23.327	38027	8	6.334	3.028	38099	8	23.554	9.136	38171	12	5.150	19.206	38243	35	7.953	25.295
37944	20	9.428	23.856	38028	11	14.433	3.153	38100	8	0.232	10.810	38172	8	5.255	19.541	38244	10	12.382	25.187
37945	10	10.603	23.586	38029	8	15.374	3.839	38101	9	2.305	10.328	38173	9	5.328	19.480	38245	8	12.547	25.551
37946	8	11.414	23.348	38030	10	19.126	3.333	38102	12	4.334	10.350	38174	8	13.090	19.481	38246	40	19.044	25.766
37947	9	12.036	23.646	38031	8	0.485	4.119	38103	8	10.445	10.602	38175	8	22.854	19.630	38247	8	19.104	25.378
37948	12	14.124	23.007	38032	34	1.536	4.616	38104	8	20.286	10.928	38176	45	24.916	19.551	38248	37	23.214	25.155
37949	10	14.289	23.802	38033	15	2.746	4.146	38105	8	23.444	10.500	38177	9	2.332	20.382				
37950*	53	15.802	23.056	38034	9	5.904	4.430	38106	11	25.182	10.298	38178*	78	3.180	20.519				
37951	8	15.934	23.625	38035	9	9.459	4.488	38107	9	25.652	10.244	38179	8	4.636	20.344				
37952	12	16.202	23.784	38036	8	10.708	4.806	38108	28	4.004	11.716	38180	21	4.668	20.184				
37953	12	22.343	23.234	38037	8	14.170	4.598	38109	9	4.714	11.862	38181	8	4.971	20.502				
37954	8	3.476	24.630	38038	29	16.168	4.060	38110*	76	12.253	11.998	38182	8	8.016	20.616				
37955	8	4.746	24.785	38039*	49	18.628	4.862	38111	34	14.892	11.466	38183	9	8.872	20.295				
37956	8	11.801	24.269	38040	8	18.699	4.887	38112	14	17.137	11.076	38184	40	12.116	20.816				
37957	16	13.046	24.717	38041	40	23.908	4.016	38113	17	18.742	11.072	38185	35	15.589	20.462				
37958	12	14.584	24.064	38042	9	24.555	4.126	38114	8	19.168	11.967	38186	10	21.710	20.506				
37959	14	15.364	24.533	38043	10	1.513	5.261	38115	28	19.912	11.586	38187	9	25.101	20.246				
37960	15	15.562	24.008	38044	8	2.192	5.488	38116	8	22.384	11.351	38188	8	25.625	20.216				
37961	11	17.342	24.544	38045	49	3.846	5.724	38117	8	22.835	11.511	38189	32	0.266	21.966				
37962	8	19.415	24.766	38046	33	4.001	5.658	38118	9	0.470	12.236	38190	8	0.424	21.986				
37963	9	24.130	24.666	38047	28	4.464	5.888	38119	8	2.976	12.962	38191	10	1.782	21.812				
37964	12	0.756	25.553	38048	8	5.106	5.920	38120	38	3.208	12.082	38192	40	4.734	21.405				
37965	8	5.716	25.582	38049	38	7.812	5.798	38121	8	9.251	12.886	38193*	88	6.186	21.066				
37966	8	9.442	25.375	38050	8	7.812	5.636	38122	16	17.485	12.952	38194	42	6.545	21.745				
37967	8	11.782	25.160	38051	41	8.426	5.726	38123	8	19.310	12.044	38195	38	7.487	21.226				
37968	8	14.376	25.340	38052	10	9.160	5.500	38124	9	23.437	12.654	38196	11	7.679	21.178				
37969	8	15.992	25.636	38053	42	12.886	5.826	38125	9	23.672	12.775	38197*	80	10.186	21.208				
37970	8	24.525	25.114	38054	40	19.720	5.338	38126	36	0.116	13.814	38198	8	11.658	21.182				
37971	8	24.684	25.400	38055	74	25.055	5.484	38127	36	0.366	13.384	38199	42	16.510	21.430				
37972	8	25.662	25.225	38056	45	3.120	6.158	38128*	8	1.226	13.173	38200	40	18.164	21.150				
				38057	11	3.132	6.915	38129*	52	15.036	13.976	38201	10	18.368	21.975				
				38058	8	3.651	6.286	38130	42	19.123	13.791	38202	23	21.520	21.415				
				38059	42	4.168	6.229	38131	36	23.955	13.516	38203	42	21.534	21.429				
				38060*	76	4.602	6.405	38132	47	0.020	14.776	38204	41	22.362	21.634				
				38061	24	5.600	6.332	38133	38	0.421	14.819	38205	32	24.700	21.258				
				38062	35	9.895	6.815	38134	8	3.093	14.723	38206	8	0.730	22.737				
				38063	38	11.446	6.776	38135	8	7.087	14.541	38207	32	1.368	22.736				
				38064	8	14.754	6.570	38136	40	10.282	14.396	38208*	72	6.389	22.330				
				38065	9	17.655	6.682	38137	29	10.319	14.260	38209	9	8.190	22.100				
				38066	34	19.655	6.966	38138	32	10.628	14.666	38210	38	12.116	22.426				
				38067	42	19.866	6.225	38139	25	14.318	14.912	38211	40	14.207	22.658				
				38068	10	22.086	6.630	38140	9	15.535	14.282	38212	8	14.888	22.350				
				38069	8	23.875	6.611	38141*	86	17.287	14.039	38213	43	15.355	22.612				
				38070	8	24.341	6.931	38142*	76	21.491	14.645	38214	8	16.940	22.916				
				38071	11	2.916	7.713	38143	8	3.876	15.825	38215	8	18.084	22.184				
				38072	11	4.859	7.146	38144	38	5.484	15.456	38216	36	21.723	22.676				
				38073	10	7.447	7.754	38145	8	6.575	15.054	38217	26	24.306	22.254				
				38074	11	8.757	7.002	38146*	60	14.590	15.026	38218	15	0.210	22.563				
				38075	9	9.605	7.150	38147	27	22.176	15.610	38219	8	0.600	23				

39069	8	12.174	2.067	39141	11	19.678	9.740	39213	10	2.036	18.450	39285	19	13.911	25.048	39343	23	15.504	4.384
39070	13	15.466	2.171	39142	10	21.635	9.680	39214	19	2.807	18.798	39286	9	14.130	25.100	39344*	43	23.748	4.072
39071	15	16.570	2.293	39143	22	22.730	9.844	39215	9	5.813	18.052	39287	8	15.705	25.840	39345	15	5.110	5.884
39072	10	20.356	2.994	39144	13	23.346	9.802	39216	13	8.174	18.527	39288	11	15.858	25.824	39346	13	7.914	5.776
39073	20	20.797	2.891	39145	22	24.171	9.446	39217	17	12.328	18.919	39289	13	21.058	25.563	39347*	46	8.436	5.484
39074	8	24.271	2.307	39146	9	3.042	10.476	39218	10	15.004	18.642	39290	9	23.533	25.256	39348	35	14.616	5.400
39075*	36	4.611	3.763	39147*	33	13.628	10.510	39219	9	16.938	18.133					39349	10	15.977	5.644
39076	15	6.263	3.032	39148	11	19.421	10.138	39220	33	2.867	19.726					39350	15	16.354	5.850
39077*	30	6.798	3.685	39149	22	23.250	10.604	39221	15	4.634	19.820					39351	42	21.702	5.585
39078	9	10.052	3.627	39150	31	24.122	10.162	39222	11	9.098	19.732					39352	9	23.615	5.825
39079	9	11.993	3.543	39151	40	24.532	10.639	39223	17	9.178	19.114					39353	8	24.968	5.040
39080	19	13.458	3.988	39152	8	0.708	11.703	39224	8	10.692	19.800					39354	16	2.540	6.124
39081*	33	15.113	3.186	39153	8	7.736	11.186	39225	28	11.334	19.696					39355*	41	4.745	6.752
39082	23	15.935	3.525	39154	33	7.824	11.980	39226	10	19.049	19.129					39356	20	4.915	6.390
39083	10	17.016	3.929	39155	17	9.076	11.422	39227	12	22.068	19.358					39357	8	5.272	6.684
39084	24	20.680	3.500	39156	24	11.167	11.065	39228	9	25.095	19.918					39358	8	8.078	6.751
39085	8	21.252	3.356	39157	29	11.299	11.114	39229	11	25.743	19.586					39359	20	12.250	6.246
39086*	40	22.308	3.724	39158	20	25.565	11.202	39230	24	25.880	19.611					39360	14	14.862	6.560
39087	11	23.460	3.808	39159	8	1.322	12.846	39231	9	6.212	20.180					39361	13	20.349	6.539
39088	12	25.412	3.626	39160	8	1.559	12.966	39232	22	7.222	20.017					39362	12	20.892	6.940
39089	18	1.701	4.204	39161	8	4.243	12.627	39233	13	9.002	20.108					39363	11	24.612	6.642
39090	8	2.352	4.310	39162	35	5.057	12.520	39234	23	10.692	20.320					39364	22	7.103	7.701
39091	14	4.558	4.160	39163	25	7.280	12.742	39235	11	11.842	20.078					39365*	36	9.470	7.281
39092*	31	12.308	4.770	39164	12	12.826	12.670	39236	10	17.590	20.060					39366	8	9.951	7.332
39093	9	12.343	4.418	39165*	58	22.817	12.674	39237	10	19.460	20.102					39367	23	10.148	7.544
39094*	40	16.646	4.920	39166	13	23.314	12.882	39238	10	24.690	20.821					39368	8	11.038	7.153
39095	21	17.032	4.458	39167	17	25.118	12.710	39239	21	0.336	21.832					39369	10	12.057	7.183
39096	9	20.365	4.787	39168	15	1.850	13.700	39240	10	2.670	21.434					39370*	36	14.832	7.282
39097*	41	2.861	5.660	39169	8	4.390	13.984	39241	11	9.944	21.155					39371	21	16.662	7.700
39098*	28	8.947	5.258	39170	8	8.384	13.940	39242*	50	17.658	21.840					39372	8	22.923	7.126
39099	8	10.515	5.617	39171	8	10.247	13.094	39243	9	21.155	21.526					39373	11	24.808	7.905
39100	8	11.829	5.966	39172	18	10.748	13.102	39244	10	21.980	21.961					39374	8	1.396	8.462
39101	13	12.152	5.163	39173	14	12.016	13.839	39245*	52	22.761	21.370					39375	21	1.568	8.738
39102*	28	12.496	5.726	39174	19	22.365	13.561	39246	8	24.321	21.596					39376	11	3.746	8.500
39103	8	12.534	5.318	39175	11	23.470	13.678	39247	10	2.286	22.432					39377	8	4.523	8.839
39104	8	14.097	5.446	39176	17	24.874	13.192	39248	8	4.988	22.170					39378	19	5.686	8.074
39105	9	14.490	5.443	39177	8	4.080	14.990	39249	8	5.769	22.898					39379	29	10.709	8.630
39106	8	16.474	5.516	39178	8	7.772	14.887	39250	8	5.822	22.017					39380	8	12.568	8.460
39107	18	19.106	5.200	39179	9	7.921	14.710	39251	16	6.782	22.492					39381	9	15.386	8.791
39108	10	20.320	5.950	39180	8	20.036	14.612	39252	16	16.288	22.498					39382	10	15.849	8.886
39109	27	20.379	5.224	39181	8	20.142	14.716	39253	21	20.584	22.632					39383	8	16.664	8.874
39110	10	5.370	6.318	39182	8	21.807	14.660	39254	22	23.350	22.796					39384	29	18.390	8.208
39111	8	13.047	6.143	39183	11	23.597	14.163	39255	10	1.996	23.786					39385	27	23.484	8.171
39112	8	15.453	6.278	39184	12	0.089	15.812	39256	17	3.224	23.445					39386	30	25.181	8.160
39113*	46	18.693	6.709	39185	8	5.757	15.312	39257	16	3.672	23.817					39387	25	0.390	9.892
39114	12	24.885	6.078	39186	25	6.113	15.390	39258	10	8.976	23.366					39388	12	1.004	9.850
39115	9	0.904	7.433	39187*	21	6.752	15.029	39259	12	13.073	23.032					39389	24	1.830	9.494
39116	8	2.166	7.114	39188	25	14.307	15.730	39260	9	15.216	23.330					39390	20	4.794	9.181
39117	22	3.384	7.991	39189*	49	18.451	15.837	39261	18	20.383	23.273					39391	37	16.742	9.192
39118	24	5.858	7.420	39190	11	24.433	15.010	39262	11	21.462	23.178					39392*	140	18.200	9.254
39119	18	10.030	7.198	39191	17	24.587	15.680	39263	11	21.714	23.370					39393	10	21.015	9.016
39120	14	10.810	7.123	39192	24	1.850	16.331	39264	8	24.604	23.424					39394	23	0.910	10.650
39121	13	12.496	7.443	39193	21	5.562	16.620	39265	8	25.874	23.482					39395	34	1.780	10.210
39122*	50	13.392	7.669	39194	13	6.270	16.844	39266	17	25.968	23.005					39396	42	2.194	10.684
39123*	45	13.414	7.770	39195	28	7.739	16.018	39267	22	0.076	24.869					39397	33	13.995	10.604
39124	9	16.726	7.005	39196	9	10.052	16.702	39268	8	3.045	24.399					39398*	46	15.684	10.900
39125	20	20.797	7.260	39197	18	11.662	16.132	39269	16	5.582	24.679					39399	8	16.248	10.656
39126	34	0.300	8.240	39198	15	11.736	16.419	39270	25	6.144	24.393					39400	8	21.360	10.770
39127	8	8.429	8.721	39199*	25	20.767	16.940	39271	10	7.550	24.872					39401	8	22.164	10.873
39128	9	8.562	8.953	39200	12	21.460	16.077	39272	8	7.573	24.860					39402	17	22.249	10.036
39129	21	10.790	8.190	39201	10	24.258	16.578	39273	17	12.997	24.370					39403	15	23.139	10.875
39130	8	12.050	8.092	39202	13	25.530	16.126	39274	19	17.550	24.160					39404	21	3.229	11.249
39131	16	14.709	8.892	39203	8	0.284	17.901	39275	11	18.117	24.434					39405	8	11.445	11.300
39132	23	22.160	8.096	39204	8	10.466	17.886	39276	12	19.180	24.083					39406*	67	16.426	11.934
39133	8	23.736	8.415	39205	19	11.741	17.933	39277	9	19.380	24.202					39407*	54	20.004	11.878
39134	16	23.908	8.692	39206	12	16.091	17.150	39278	8	21.196	24.880					39408	10	23.534	11.160
39135	12	0.654	9.318	39207*	24	19.351	17.410	39279	24	21.371	24.982					39409	70	0.475	12.720
39136	10	7.668	9.354	39208	14	21.050	17.068	39280	13	1.222	25.350					39410	17	0.980	12.930
39137	12	8.550	9.190	39209	8	24.238	17.290	39281	11	4.347	25.400					39411	18	2.784	12.757
39138	8	9.203	9.674	39210	8	24.871	17.937	39282	17	7.066	25.733								

39415	9	7.778	12.209	39487	9	15.655	21.730	39559	13	23.366	0.862	39631*	54	16.457	7.606	39703	30	25.132	14.116
39416	11	14.421	12.048	39488	9	18.545	21.601	39560	12	2.473	1.958	39632*	75	17.216	7.547	39704	10	25.856	14.454
39417	27	16.675	12.686	39489	12	19.550	21.350	39561	40	6.299	1.177	39633	13	19.912	7.954	39705	12	1.444	15.038
39418	21	16.960	12.810	39490	16	22.038	21.039	39562	8	6.681	1.706	39634	11	20.964	7.286	39706*	152	4.812	15.297
39419	8	20.898	12.327	39491	32	1.024	22.842	39563	37	8.479	1.383	39635	8	23.702	7.234	39707	8	8.625	15.828
39420*	50	23.594	12.708	39492	8	10.805	22.928	39564*	76	9.860	1.402	39636	40	1.071	8.160	39708	40	13.427	15.575
39421	13	23.888	12.658	39493	30	11.510	22.208	39565	10	11.546	1.368	39637	41	2.769	8.124	39709	10	13.434	15.337
39422	20	0.030	13.608	39494	8	13.584	22.916	39566	28	13.478	1.950	39638	8	4.424	8.213	39710	8	19.504	15.918
39423	11	1.136	13.726	39495	11	14.582	22.912	39567	18	14.589	1.916	39639	8	5.106	8.212	39711	11	20.654	15.762
39424	15	2.541	13.241	39496	8	15.102	22.596	39568	8	14.906	1.718	39640	8	6.198	8.596	39712	8	22.105	15.518
39425	9	18.030	13.401	39497	36	18.352	22.303	39569	8	14.946	1.376	39641	8	18.754	8.247	39713	22	24.598	15.194
39426	11	19.414	13.805	39498	8	20.370	22.154	39570	9	14.973	1.787	39642	8	19.576	8.824	39714	9	0.681	16.064
39427	13	20.100	13.264	39499	10	21.458	22.198	39571	8	24.444	1.522	39643	12	20.044	8.900	39715	8	0.734	16.187
39428*	93	22.765	13.804	39500	27	23.406	22.196	39572	9	0.802	2.567	39644*	44	21.260	8.116	39716	8	2.781	16.660
39429	8	1.179	14.014	39501	8	2.278	23.470	39573	25	1.496	2.663	39645	8	25.740	8.200	39717	40	6.350	16.080
39430	11	1.265	14.212	39502	22	3.644	23.050	39574	26	1.934	2.114	39646	8	1.851	9.546	39718	29	6.750	16.626
39431	8	6.751	14.743	39503	9	13.126	23.887	39575	8	3.199	2.683	39647	39	7.166	9.050	39719	9	8.549	16.516
39432	9	10.238	14.300	39504	29	15.440	23.814	39576	8	8.504	2.917	39648	35	18.240	9.354	39720	10	9.335	16.312
39433	8	13.094	14.776	39505	11	20.472	23.018	39577	40	14.866	2.236	39649	22	20.134	9.024	39721*	74	12.246	16.455
39434*	33	16.795	14.146	39506	19	20.765	23.005	39578	39	15.692	2.321	39650	22	0.770	10.866	39722	12	12.476	16.092
39435	8	20.126	14.446	39507	8	25.086	23.201	39579	40	19.444	2.470	39651	9	2.291	10.013	39723	35	12.721	16.380
39436	11	2.100	15.056	39508	29	25.599	23.024	39580	26	19.514	2.914	39652	8	3.995	10.967	39724*	76	13.981	16.256
39437	20	2.255	15.726	39509	8	6.493	24.155	39581	8	22.907	2.138	39653	9	6.604	10.145	39725	8	19.870	16.428
39438	8	3.676	15.842	39510*	41	6.971	24.360	39582	42	1.070	3.284	39654	12	12.169	10.288	39726	8	21.236	16.310
39439	8	4.578	15.415	39511	22	15.335	24.027	39583	8	2.350	3.102	39655	8	13.780	10.556	39727	14	25.996	16.550
39440*	58	5.058	15.416	39512	23	17.796	24.598	39584	8	2.477	3.492	39656	8	14.278	10.258	39728	8	1.298	17.764
39441	32	7.092	15.448	39513	31	19.459	24.392	39585*	41	3.774	3.820	39657	8	21.109	10.588	39729	29	3.770	17.500
39442*	35	9.750	15.596	39514	8	19.762	24.544	39586	36	3.911	3.079	39658	10	24.296	10.663	39730	9	3.880	17.431
39443	8	12.764	15.374	39515	23	20.378	24.974	39587*	40	4.382	3.262	39659	9	25.030	10.712	39731	40	8.976	17.460
39444	12	19.364	15.280	39516	11	21.696	24.609	39588	8	6.954	3.017	39660	8	25.174	10.252	39732	9	10.365	17.850
39445	12	23.750	15.054	39517*	41	23.806	24.338	39589	37	8.444	3.610	39661	15	1.173	11.148	39733	9	10.996	17.433
39446	9	1.928	16.624	39518	8	1.212	25.305	39590	8	11.454	3.499	39662	8	3.837	11.361	39734	8	17.486	17.061
39447	13	3.200	16.172	39519	12	2.700	25.474	39591	29	13.246	3.421	39663	9	4.130	11.766	39735	9	19.095	17.925
39448	8	7.188	16.458	39520	9	6.096	25.825	39592	11	17.217	3.237	39664	8	5.542	11.914	39736	37	25.656	17.367
39449	8	8.872	16.330	39521	38	8.246	25.360	39593	8	17.664	3.260	39665	9	6.557	11.159	39737	8	1.260	18.334
39450	8	10.238	16.596	39522	8	8.806	25.265	39594	23	18.268	3.760	39666	15	10.026	11.600	39738	11	2.348	18.446
39451	8	12.836	16.894	39523	8	10.040	25.794	39595	16	19.368	3.868	39667	41	12.488	11.580	39739	8	4.545	18.424
39452	9	20.755	16.222	39524	14	16.073	25.241	39596	41	21.015	3.051	39668	8	13.657	11.974	39740	22	5.328	18.250
39453	8	25.061	16.698	39525	8	16.246	25.916	39597*	47	1.274	4.056	39669	18	19.404	11.858	39741	8	7.746	18.335
39454	11	8.458	17.519	39526	10	16.666	25.364	39598	8	1.914	4.548	39670	9	21.538	11.912	39742	8	11.136	18.162
39455	36	8.738	17.183	39527	8	17.379	25.791	39599	43	3.542	4.733	39671	8	23.724	11.706	39743*	74	11.540	18.530
39456	25	11.575	17.252	39528	12	18.676	25.592	39600	8	7.059	4.320	39672	8	25.089	11.302	39744	14	13.678	18.766
39457	11	15.715	17.048	39529	8	20.176	25.776	39601	9	8.396	4.726	39673	8	25.430	11.558	39745	40	18.676	18.368
39458	27	21.800	17.324	39530	13	25.660	25.786	39602	8	8.677	4.300	39674	40	25.680	11.664	39746	17	20.974	18.127
39459	8	4.094	18.082					39603*	47	11.392	4.500	39675*	64	1.246	12.695	39747	21	21.995	18.060
39460	10	4.634	18.040					39604	35	16.262	4.524	39676	17	1.548	12.642	39748	23	23.450	18.878
39461	12	5.985	18.686					39605	8	18.452	4.526	39677	9	3.415	12.104	39749	38	24.504	18.740
39462*	63	8.056	18.766					39606	16	20.648	4.653	39678	8	8.378	12.145	39750	9	25.680	18.062
39463	9	8.830	18.812					39607	12	24.316	4.794	39679	8	8.707	12.488	39751	41	1.380	19.540
39464	8	23.508	18.348					39608	8	25.250	4.732	39680	8	16.726	12.522	39752	40	3.912	19.238
39465	11	24.600	18.478					39609	10	0.964	5.626	39681	8	18.994	12.422	39753*	60	4.126	19.576
39466	8	2.766	19.964					39610	11	1.171	5.812	39682	37	22.586	12.555	39754	24	9.498	19.900
39467	10	3.415	19.630					39611	28	4.440	5.223	39683	39	24.674	12.855	39755	33	13.138	19.066
39468	28	3.550	19.656					39612	9	4.844	5.437	39684	8	25.591	12.782	39756	8	13.718	19.204
39469	8	8.397	19.600					39613	10	9.578	5.234	39685	116	0.428	13.802	39757	9	14.096	19.450
39470	13	8.474	19.826					39614	12	16.505	5.984	39686	9	5.542	13.928	39758	8	15.720	19.395
39471	9	11.760	19.862					39615	8	24.087	5.796	39687*	116	7.004	13.050	39759	8	15.776	19.172
39472	30	13.930	19.344					39616	17	24.120	5.618	39688	40	15.557	13.102	39760	8	20.713	19.637
39473	8	17.130	19.775					39617	8	0.398	7.117	39689	10	18.949	13.783	39761	29	22.748	19.567
39474	32	23.620	19.555					39618	10	2.178	6.612	39690	13	19.841	13.478	39762	40	24.592	19.374
39475	8	2.364	20.868					39619	22	5.599	6.330	39691	41	21.390	13.670	39763	24	24.717	19.888
39476	23	4.492	20.370					39620	10	6.132	6.238	39692	8	21.662	13.519	39764	9	25.549	19.372
39477	25	5.842	20.986					39621	24	7.256	6.252	39693	10	22.957	13.374	39765	40	25.536	19.820
39478*	41	5.910	20.244					39622	13	10.396	6.646	39694	8	23.915	13.376	39766	32	0.288	20.907
39479	14	9.568	20.324					39623*	54	12.754	6.376	39695	8	24.791	13.280	39767	8	7.716	20.727
39480	23	10.656	20.364																

39775	45	17-906	20-886	<div>R.A. 14^h 24^m</div> <div>Plate 704; 1916 April 30.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-02591 +00598 -0226</div> <div>D E F</div> <div>-00604 -02602 -3715</div> <div>Mag.=16.0-1.05√d</div>	39906	9	3-820	7-705	39978	9	22-670	17-675	40050	22	14-050	25-387
39776	9	21-605	20-540		39907*	27	13-330	7-080	39979	11	23-720	17-580	40051	8	16-764	25-904
39777	41	4-287	21-054		39908	19	13-792	7-115	39980	8	1-150	18-954	40052	10	18-649	25-122
39778	8	5-676	21-266		39909	13	19-651	7-867	39981	19	2-203	18-802	40053	11	22-500	25-176
39779	8	5-954	21-120		39910	33	22-624	7-446	39982	30	5-784	18-620	40054	24	23-142	25-534
39780	9	7-781	21-219		39911	8	23-180	7-923	39983	8	21-320	18-280	<div>R.A 14^h 32^m</div> <div>Plate 692; 1916 April 27.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-02560 +00886 +0579</div> <div>D E F</div> <div>-00901 -02592 -1031</div> <div>Mag.=16.5-1.05√d</div>			
39781	9	10-304	21-783		39912	20	8-185	8-262	39984	14	23-540	18-814				
39782	8	14-247	21-546		39913	11	8-186	8-276	39985	9	23-551	18-852				
39783	8	15-832	21-716		39914	8	8-884	8-524	39986	29	24-230	18-542				
39784	10	19-864	21-852		39915	21	19-850	8-055	39987	12	0-457	19-650				
39785	40	20-690	21-741		39916	14	4-294	9-420	39988	24	2-300	19-434				
39786	8	20-884	21-198		39917	10	7-590	9-980	39989	11	2-430	19-950				
39787	8	21-132	21-452		39918*	32	12-554	9-988	39990	20	3-248	19-870				
39788	39	23-834	21-784		39919	24	12-761	9-100	39991	21	10-820	19-448				
39789	40	1-205	22-183		39920	12	17-704	9-255	39992	11	11-091	19-470				
39790	40	3-411	22-980	39921	8	25-520	9-608	39993	12	15-280	19-610					
39791	9	4-816	22-245	39922	8	1-896	10-730	39994*	34	9-396	20-128					
39792	9	5-062	22-988	39923	13	9-352	10-050	39995	27	10-936	20-268					
39793	40	8-914	22-273	39924	10	13-238	10-190	39996*	20	11-687	20-314					
39794	41	9-924	22-634	39925	11	19-984	10-174	39997	28	12-979	20-467					
39795	100	10-916	22-522	39926	9	25-438	10-410	39998	8	13-110	20-156					
39796*	74	12-655	22-636	39927	22	3-293	11-718	39999*	45	13-364	20-798					
39797	8	15-547	22-139	39928	10	4-699	11-678	40000	11	16-624	20-270					
39798	32	20-422	22-820	39929*	31	5-758	11-518	40001	8	18-704	20-620					
39799	43	20-620	22-850	39930	8	6-248	11-628	40002	10	19-316	20-200					
39800	8	21-187	22-350	39931*	44	6-790	11-744	40003	8	19-640	20-480					
39801	8	21-563	22-941	39932	19	14-176	11-057	40004	8	20-350	20-416					
39802*	45	21-917	22-460	39933	8	19-960	11-536	40005	10	1-568	21-853					
39803	8	0-749	23-391	39934	8	21-180	11-158	40006	8	5-326	21-076					
39804	8	2-902	23-160	39935	13	21-440	11-840	40007	8	7-011	21-355					
39805	26	4-589	23-745	39936	13	24-750	11-828	40008	8	7-500	21-090					
39806	8	5-206	23-959	39937	16	0-210	12-642	40009	10	7-806	21-782					
39807	40	6-526	23-420	39938	17	2-302	12-918	40010*	20	7-990	21-122					
39808	32	8-510	23-452	39939	9	4-456	12-530	40011	12	8-024	21-940					
39809	8	11-466	23-313	39940	21	5-830	12-980	40012	8	11-818	21-288					
39810	44	13-768	23-602	39941	21	7-443	12-770	40013	10	11-898	21-166					
39811	28	18-876	23-300	39942	21	11-324	12-270	40014	10	12-820	21-028					
39812	8	23-538	23-197	39943	16	20-274	12-918	40015	11	15-236	21-594					
39813*	44	1-638	24-320	39944	8	20-336	12-098	40016*	42	24-454	21-046					
39814	38	6-607	24-098	39945	28	21-484	12-906	40017	43	25-625	21-410					
39815	14	8-156	24-086	39946	11	23-368	12-949	40018	8	8-386	22-211					
39816	8	12-862	24-805	39947	8	0-593	13-456	40019*	37	8-420	22-192					
39817	38	18-187	24-256	39948	14	3-920	13-816	40020	8	12-235	22-906					
39818	10	18-965	24-478	39949	14	5-360	13-466	40021	10	13-624	22-413					
39819	16	21-613	24-475	39950	20	12-286	13-962	40022	10	14-190	22-950					
39820	20	21-810	24-901	39951	9	13-610	13-486	40023	12	16-216	22-130					
39821	8	22-368	24-556	39952	8	24-439	13-110	40024*	41	23-851	22-170					
39822	8	22-726	24-586	39953	12	2-774	14-172	40025	11	3-772	23-096					
39823*	48	24-582	24-758	39954	8	3-505	14-500	40026	15	17-040	23-414					
39824	14	25-032	24-045	39955	8	6-218	14-414	40027	8	20-350	23-953					
39825	30	3-519	25-738	39956	33	8-740	14-992	40028*	41	2-350	24-818					
39826	60	4-285	25-210	39957	8	10-935	14-810	40029	10	2-792	24-100					
39827	8	6-548	25-380	39958	9	2-255	15-255	40030	8	7-372	24-942					
39828	8	6-653	25-790	39959	8	10-210	15-800	40031	8	8-065	24-959					
39829	38	9-930	25-672	39960*	37	12-556	15-180	40032	21	8-738	24-078					
39830	8	12-217	25-943	39961	11	15-268	15-074	40033	8	12-220	24-626					
39831	38	13-763	25-224	39962	8	17-875	15-449	40034	17	16-440	24-210					
39832	30	15-454	25-948	39963*	46	18-773	15-260	40035	13	17-950	24-812					
39833	9	23-064	25-400	39964	19	20-700	15-468	40036	19	18-946	24-618					
				39965	8	20-883	15-080	40037	8	21-822	24-132					
				39966	11	21-662	15-318	40038	10	22-838	24-398					
				39967	16	23-546	15-373	40039	8	25-290	24-287					
				39968	16	3-670	16-600	40040	47	25-403	24-830					
				39969*	45	4-517	16-620	40041	39	4-018	25-900					
				39970	10	8-953	16-718	40042	18	4-336	25-610					
				39971	14	15-524	16-610	40043	26	7-241	25-762					
				39972	8	17-548	16-650	40044	9	7-730	25-450					
				39973*	42	20-976	16-650	40045	20	9-278	25-098					
				39974	9	23-345	16-065	40046	8	10-322	25-898					
				39975	13	3-337	17-414	40047	10	10-738	25-486					
				39976	8	4-394	17-561	40048	8	10-870	25-085					
				39977	20	11-599	17-562	40049	10	13-398	25-372					

40144	10	16.425	4.608	40216	8	19.056	10.158	40288	13	1.498	19.204	R.A. 14 ^h 40 ^m Plate 705 ; 1916 April 30 Provisional Constants. A B C -02536 +00321 +.3372 D E F -00309 -02597 -2170 Mag.=16.4-1.05√d	40456	8	9.334	5.788
40145	12	16.600	4.480	40217	11	22.483	10.708	40289	10	1.510	19.243		40457	18	14.900	5.288
40146*	34	17.454	4.230	40218	8	6.112	11.198	40290	8	4.070	19.228		40458	16	17.638	5.214
40147	8	18.458	4.444	40219	30	10.138	11.192	40291	8	7.824	19.023		40459	11	18.365	5.447
40148*	43	21.086	4.859	40220*	51	11.624	11.255	40292	8	17.552	19.986		40460	8	19.976	5.246
40149	10	21.626	4.954	40221	8	16.616	11.216	40293	11	20.598	19.468		40461	22	20.291	5.624
40150	10	21.870	4.340	40222	12	19.213	11.069	40294	8	23.474	19.772		40462	20	24.077	5.996
40151	8	24.216	4.510	40223	10	21.230	11.564	40295	11	9.296	20.300		40463	10	25.272	5.036
40152	31	2.356	5.496	40224	21	22.015	11.137	40296	15	12.262	20.428		40464	8	2.478	6.658
40153	8	10.503	5.854	40225	16	22.961	11.659	40297	8	23.566	20.856		40465	30	7.480	6.329
40154*	27	13.382	5.188	40226	8	23.356	11.210	40298	8	24.965	20.712	40466	8	9.002	6.254	
40155	21	14.722	5.850	40227	20	2.614	12.200	40299*	47	2.440	21.423	40467	11	9.568	6.310	
40156*	46	15.364	5.905	40228	22	10.356	12.066	40300*	47	3.613	21.766	40468	10	16.286	6.524	
40157	14	22.946	5.499	40229	8	11.047	12.144	40301	8	6.490	21.387	40469	14	23.102	6.946	
40158	17	25.598	5.052	40230	8	11.492	12.258	40302	8	13.958	21.784	40470	8	25.218	6.386	
40159	50	25.880	5.312	40231*	27	11.836	12.176	40303	30	17.316	21.964	40471	19	2.473	7.825	
40160	15	1.097	6.952	40232	12	18.696	12.884	40304	18	17.635	21.206	40472	22	6.122	7.034	
40161	8	4.314	6.555	40233	28	19.020	12.710	40305	8	20.100	21.682	40473*	58	12.294	7.490	
40162	8	7.656	6.816	40234	8	19.910	12.761	40306	8	21.426	21.926	40474	8	14.244	7.253	
40163	12	8.216	6.706	40235	8	22.566	12.486	40307*	44	1.849	22.554	40475	12	15.881	7.648	
40164	24	9.424	6.876	40236	11	23.658	12.502	40308	8	4.194	22.396	40476	13	17.454	7.946	
40165	13	12.930	6.363	40237	8	23.766	12.352	40309	8	4.750	22.780	40477	8	22.469	7.504	
40166	8	13.015	6.318	40238	8	24.314	12.650	40310	10	9.969	22.182	40478	14	22.703	7.904	
40167	10	13.944	6.196	40239	12	25.296	12.022	40311	13	10.477	22.428	40479	10	0.040	8.052	
40168	22	14.340	6.916	40240	20	1.246	13.344	40312	24	18.430	22.938	40480	14	5.316	8.251	
40169	10	16.222	6.456	40241	9	2.320	13.488	40313	13	20.107	22.276	40481	20	5.810	8.970	
40170*	58	17.863	6.046	40242	9	6.293	13.554	40314	8	22.617	22.003	40482	9	10.912	8.910	
40171	29	17.943	6.032	40243	28	7.906	13.178	40315	12	23.732	22.884	40483	8	11.955	8.624	
40172	18	19.112	6.205	40244	8	18.049	13.162	40316	14	24.574	22.164	40484*	35	21.118	8.172	
40173	10	21.712	6.378	40245	8	18.961	13.810	40317	10	3.434	23.226	40485	18	21.360	8.586	
40174	8	24.556	6.568	40246	8	21.706	13.312	40318	10	4.356	23.290	40486	10	22.486	8.574	
40175	36	0.424	7.847	40247	26	24.224	13.996	40319*	42	20.164	23.357	40487	11	24.406	8.676	
40176	9	0.894	7.292	40248	17	24.856	13.698	40320	12	20.294	23.495	40488	22	24.856	8.512	
40177	8	7.542	7.996	40249	8	25.303	13.600	40321	38	20.838	23.490	40489	29	3.382	9.212	
40178*	40	7.903	7.813	40250	11	3.768	14.599	40322	8	21.923	23.322	40490	14	3.547	9.189	
40179	21	12.895	7.270	40251	10	10.356	14.570	40323	32	23.100	23.298	40491	9	4.552	9.396	
40180	8	13.350	7.100	40252	15	17.795	14.354	40324	8	23.218	23.130	40492	8	8.764	9.135	
40181	8	13.944	7.887	40253	17	18.630	14.356	40325	8	0.344	24.642	40493	8	9.122	9.514	
40182	10	14.306	7.942	40254	8	20.870	14.295	40326	9	0.872	24.796	40494	8	17.966	9.650	
40183	12	19.152	7.125	40255	10	23.536	14.960	40327	12	3.324	24.650	40495	11	23.558	9.450	
40184	9	19.414	7.138	40256	22	25.956	14.436	40328	20	8.914	24.474	40496	11	24.678	9.864	
40185*	34	21.806	7.084	40257	21	1.456	15.763	40329	8	9.136	24.640	40497	10	0.430	10.811	
40186	11	22.106	7.950	40258	28	14.451	15.888	40330	9	11.767	24.880	40498*	40	4.436	10.005	
40187	21	24.542	7.733	40259	34	22.274	15.604	40331	11	12.772	24.178	40499	15	7.371	10.829	
40188	8	0.985	8.318	40260	22	23.884	15.820	40332	10	16.584	24.385	40500	29	8.968	10.720	
40189	8	2.129	8.189	40261*	62	24.574	15.218	40333*	35	17.517	24.400	40501	30	15.681	10.632	
40190	17	6.116	8.695	40262	15	1.265	16.456	40334	8	20.764	24.746	40502	8	20.099	10.800	
40191	13	6.966	8.442	40263	10	2.920	16.550	40335	12	0.542	25.580	40503	10	23.214	10.703	
40192	29	7.738	8.899	40264	22	5.841	16.546	40336	29	1.191	25.928	40504	20	24.600	10.104	
40193	10	13.362	8.286	40265	37	6.240	16.102	40337*	52	3.438	25.192	40505	12	0.915	11.756	
40194	8	14.120	8.465	40266	10	11.784	16.969	40338	8	3.816	25.255	40506*	55	4.324	11.142	
40195	19	14.917	8.568	40267*	47	22.210	16.714	40339	8	4.768	25.529	40507*	47	4.995	11.494	
40196	8	15.104	8.340	40268	17	23.456	16.291	40340	8	16.354	25.069	40508	8	5.646	11.823	
40197	30	16.295	8.164	40269	8	25.234	16.803	40341	10	16.398	25.370	40509	21	8.732	11.314	
40198	11	19.646	8.627	40270	12	25.931	16.822	40342	24	17.244	25.446	40510	8	8.926	11.076	
40199	23	21.050	8.444	40271	17	1.660	17.968	40343	8	18.258	25.034	40511	37	9.916	11.926	
40200	20	21.158	8.956	40272	8	4.268	17.498	40344	20	19.305	25.170	40512	20	10.104	11.714	
40201	10	3.354	9.971	40273*	47	6.720	17.048	40345	8	20.013	25.937	40513	8	12.236	11.116	
40202	19	6.820	9.620	40274	9	10.416	17.018	40346	22	20.342	25.580	40514*	46	13.677	11.470	
40203	9	9.010	9.236	40275*	33	10.544	17.164	40347	8	22.276	25.381	40515	10	16.144	11.248	
40204	14	11.083	9.624	40276	31	11.065	17.579	40348	8							

40528	14	13.542	12.729	40600	28	20.584	19.120	<div>R.A. 14^h 48^m</div> <div>Plate 676 ; 1916 April 10.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>−02512 +00534 +1506</div> <div>D E F</div> <div>−00512 −02602 −3458</div> <div>Mag.=17.5−1.05√d</div>	40756	26	0.624	6.896	40828	10	6.526	12.619
40529	39	18.684	12.574	40601	8	1.568	20.954		40757	12	2.732	6.312	40829	36	6.613	12.336
40530	8	19.134	12.090	40602	8	5.754	20.832		40758*	76	6.796	6.032	40830	34	7.838	12.524
40531	8	20.632	12.722	40603	8	10.648	20.903		40759	20	6.832	6.055	40831	16	12.846	12.894
40532	12	22.898	12.660	40604	8	10.735	20.452		40760	34	7.322	6.444	40832	10	15.666	12.974
40533	10	24.314	12.075	40605	8	11.043	20.543		40761	16	12.524	6.512	40833	18	16.702	12.074
40534	26	25.422	12.263	40606*	44	12.970	20.025		40762	37	13.126	6.938	40834	17	18.676	12.045
40535	22	2.820	13.786	40607	11	15.336	20.524		40763	10	18.250	6.575	40835	26	22.464	12.552
40536	14	4.322	13.876	40608	31	16.225	20.310		40764	22	18.254	6.395	40836	36	22.624	12.637
40537	8	7.804	13.962	40609	32	20.392	20.957		40765	10	23.696	6.086	40837	10	0.736	13.286
40538	8	10.409	13.104	40610	11	21.428	20.783	40766*	56	23.918	6.722	40838	18	3.534	13.939	
40539	13	12.076	13.380	40611	8	24.724	20.248	40767	30	24.466	6.455	40839	12	4.514	13.005	
40540	8	13.576	13.470	40612	22	4.942	21.753	40768	22	0.232	7.856	40840*	80	7.136	13.502	
40541	30	14.351	13.103	40613	12	12.102	21.880	40769	37	6.166	7.466	40841	17	7.286	13.912	
40542	30	17.804	13.397	40614	8	15.065	21.884	40770	22	6.784	7.864	40842	64	7.330	13.511	
40543	8	17.870	13.318	40615	35	16.480	21.314	40771	28	8.652	7.206	40843	11	9.135	13.556	
40544*	40	17.925	13.165	40616	10	18.018	21.634	40772	14	8.888	7.254	40844	8	20.154	13.663	
40545	31	21.144	13.844	40617	25	20.185	21.588	40773	12	10.385	7.456	40845	9	21.858	13.750	
40546	10	22.154	13.386	40618	21	21.688	21.016	40774	14	11.163	7.896	40846	37	22.842	13.235	
40547	8	23.135	13.336	40619	8	23.575	21.862	40775	10	13.398	7.781	40847	10	23.044	13.794	
40548	25	2.190	14.086	40620	8	25.406	21.765	40776	14	16.608	7.946	40848	18	23.150	13.310	
40549	17	3.925	14.517	40621	9	1.744	22.978	40777	17	17.394	7.360	40849	24	25.354	13.576	
40550	8	5.211	14.260	40622	13	2.584	22.252	40778	34	17.622	7.945	40850	11	25.444	13.444	
40551	18	9.395	14.114	40623*	60	5.159	22.816	40779	10	18.114	7.515	40851	8	25.766	13.616	
40552	19	10.544	14.170	40624	29	15.486	22.465	40780*	56	24.472	7.692	40852	10	0.484	14.068	
40553	10	13.170	14.946	40625	34	1.110	23.396	40781	10	24.562	7.876	40853	10	1.145	14.124	
40554	10	14.716	14.822	40626	8	1.230	23.226	40782	22	25.904	7.341	40854	28	1.346	14.175	
40555	8	14.922	14.794	40627	10	4.556	23.966	40783	13	0.026	8.534	40855*	64	4.416	14.855	
40556	9	22.872	14.115	40628	8	5.266	23.034	40784	18	1.952	8.613	40856	36	12.354	14.362	
40557	18	23.734	14.233	40629	12	5.590	23.250	40785	24	2.398	8.444	40857	21	18.474	14.007	
40558	15	25.925	14.023	40630	11	6.174	23.794	40786	10	3.966	8.886	40858	22	20.860	14.660	
40559	31	0.246	15.707	40631	11	11.615	23.710	40787	34	18.256	8.980	40859	32	24.474	14.798	
40560	8	1.506	15.058	40632	10	12.373	23.786	40788	13	20.154	8.054	40860	8	0.446	15.336	
40561	20	1.859	15.914	40633	13	12.396	23.372	40789	8	20.496	8.423	40861	18	2.722	15.521	
40562*	64	2.536	15.308	40634*	44	16.496	23.212	40790	14	1.109	9.394	40862	10	3.036	15.875	
40563	8	5.584	15.180	40635	8	17.442	23.436	40791	12	2.236	9.794	40863	40	5.614	15.976	
40564	27	13.880	15.547	40636	22	22.586	23.970	40792	8	5.635	9.885	40864	30	6.364	15.795	
40565	8	22.820	15.382	40637	21	15.003	24.642	40793	8	5.980	9.596	40865*	48	6.956	15.437	
40566	8	24.274	15.984	40638	25	15.810	24.020	40794*	60	6.684	9.915	40866	10	7.670	15.650	
40567	13	25.090	15.594	40639	27	19.314	24.115	40795	9	8.952	9.141	40867	16	7.835	15.085	
40568	9	25.404	15.954	40640	8	20.066	24.526	40796	15	9.834	9.362	40868	24	9.305	15.226	
40569	44	0.186	16.816	40641	28	21.382	24.436	40797	18	11.836	9.992	40869	37	10.121	15.050	
40570	11	1.434	16.388	40642	8	23.382	24.546	40798	34	14.846	9.435	40870*	76	11.500	15.197	
40571	10	3.912	16.907	40643	10	3.798	25.802	40799	24	14.864	9.450	40871	14	15.056	15.146	
40572	19	5.670	16.246	40644	17	5.388	25.356	40800*	56	17.312	9.370	40872	30	21.544	15.065	
40573*	26	14.695	16.916	40645	8	5.628	25.854	40801	10	18.717	9.335	40873	24	24.035	15.068	
40574	12	22.182	16.810	40646	15	7.646	25.665	40802	14	24.379	9.534	40874	20	4.772	16.635	
40575	8	5.222	17.976	40647	34	10.578	25.254	40803	14	0.779	10.652	40875	34	11.711	16.994	
40576	8	6.076	17.343	40648	8	11.473	25.601	40804	24	2.164	10.036	40876*	46	13.365	16.364	
40577	21	6.834	17.082	40649	20	17.782	25.169	40805	20	2.568	10.958	40877	30	20.664	16.380	
40578	8	8.436	17.706	40650	30	18.122	25.715	40806	46	16.986	10.640	40878	8	22.063	16.444	
40579	14	13.537	17.840	40651	12	20.868	25.818	40807	20	20.240	10.956	40879	11	24.362	16.110	
40580	8	13.950	17.872	40652	21	21.534	25.296	40808	28	21.108	10.293	40880	8	25.327	16.844	
40581	32	14.395	17.773	40653	50	24.025	25.190	40809	36	23.125	10.823	40881	8	0.199	17.698	
40582	28	15.628	17.990	40654	12	25.305	25.237	40810	20	1.450	11.054	40882*	66	4.176	17.477	
40583	8	17.014	17.750					40811*	54	3.552	11.136	40883	24	6.730	17.600	
40584	10	17.102	17.970					40812*	105	7.995	11.633	40884	40	6.868	17.340	
40585	8	3.960	18.536					40813	37	10.126	11.915	40885	40	7.522	17.046	
40586*	51	7.354	18.620					40814	37	10.184	11.852	40886	13	9.264	17.406	
40587	8	13.086	18.620					40815	54	12.006	11.636	40887	16	10.136	17.970	
40588*	55	13.912	18.746					40816	36	12.084	11.109	40888	12	10.566	17.014	
40589*	71	14.273	18.938					40817	30	13.						

40900	26	1.264	18.716	40972	8	4.307	25.286	41040*	60	4.756	4.090	41112	27	10.608	11.646	41184	27	10.090	19.043
40901*	58	2.016	18.508	40973	48	4.693	25.674	41041	10	7.221	4.091	41113	10	16.140	11.659	41185	12	14.732	19.463
40902*	74	6.100	18.212	40974	20	4.996	25.181	41042	13	16.008	4.096	41114	10	0.250	12.890	41186	19	17.617	19.952
40903	12	8.534	18.806	40975	28	7.982	25.215	41043	11	1.919	5.578	41115	9	0.353	12.254	41187	11	18.890	19.881
40904	24	11.405	17.896	40976	15	8.528	25.314	41044	26	3.192	5.997	41116	24	0.410	12.973	41188	15	20.102	19.634
40905	10	11.676	18.782	40977	36	8.646	25.826	41045	8	3.316	5.706	41117	8	8.430	12.201	41189	16	22.068	19.917
40906*	56	14.868	18.650	40978	8	10.554	25.718	41046	8	4.246	5.860	41118	14	10.074	12.371	41190	10	22.730	19.952
40907	36	17.198	18.124	40979	24	12.638	25.118	41047	8	9.517	5.284	41119	18	11.124	12.492	41191	9	22.818	19.916
40908*	82	20.352	18.364					41048	12	18.425	5.230	41120	8	13.790	12.420	41192	12	23.971	19.005
40909	8	20.616	18.276					41049	12	19.294	5.500	41121	22	22.643	12.241	41193	20	3.302	20.001
40910	26	21.061	18.663					41050	8	20.850	5.258	41122	25	0.634	13.564	41194	20	8.480	20.697
40911	20	21.572	18.704					41051	18	22.981	5.323	41123	8	0.944	13.640	41195	10	9.094	20.897
40912	32	21.846	18.257					41052	14	2.184	6.771	41124	12	3.150	13.882	41196	9	9.234	20.026
40913	46	22.516	18.270					41053	13	4.150	6.949	41125	8	3.244	13.750	41197	40	13.310	20.022
40914	11	24.426	18.650					41054	8	5.309	6.048	41126	8	4.827	13.592	41198	14	14.658	20.836
40915	8	3.706	19.855					41055	30	14.567	6.105	41127	8	7.716	13.982	41199	34	14.909	20.639
40916	30	9.825	19.503					41056	22	18.257	6.690	41128*	43	10.236	13.064	41200	11	21.716	20.736
40917	36	11.354	19.270					41057*	60	20.950	6.746	41129*	51	15.999	13.045	41201	9	22.182	20.664
40918	16	13.745	19.922					41058*	48	21.030	6.749	41130	11	19.654	13.437	41202	24	23.312	20.266
40919	32	16.794	19.462					41059	8	22.789	6.673	41131	8	21.842	13.630	41203	50	25.986	20.768
40920	28	19.512	19.955					41060*	53	23.114	6.472	41132	8	24.782	13.494	41204	13	6.878	21.676
40921	8	20.594	19.212					41061*	49	1.638	7.040	41133	10	25.010	13.476	41205	9	11.360	21.513
40922	24	20.774	19.625					41062	11	3.635	7.640	41134	26	4.549	14.526	41206	10	12.205	21.814
40923	8	22.172	19.744					41063	11	4.307	7.235	41135	10	12.956	14.180	41207	8	12.367	21.350
40924	12	24.336	19.158					41064	8	6.681	7.948	41136*	31	22.000	14.761	41208	9	12.922	21.600
40925	36	25.338	19.698					41065	8	11.656	7.684	41137	11	1.847	15.389	41209	20	14.351	21.260
40926	9	2.414	20.175					41066	8	13.260	7.180	41138	17	2.285	15.112	41210	15	17.924	21.856
40927	34	5.878	20.694					41067*	45	15.998	7.436	41139	9	5.780	15.748	41211	52	25.680	21.279
40928	8	10.841	20.973					41068	11	16.298	7.224	41140	11	9.394	15.840	41212	8	5.528	22.856
40929*	64	12.842	20.904					41069	13	18.240	7.710	41141*	74	9.420	15.174	41213	10	6.811	22.342
40930	37	18.946	20.056					41070	12	19.359	7.586	41142	17	10.853	15.935	41214	10	8.426	22.559
40931	8	21.905	20.256					41071	8	19.692	7.852	41143	11	14.687	15.638	41215	8	10.116	22.740
40932	8	0.793	21.376					41072	19	23.330	7.652	41144	22	15.188	15.354	41216	9	10.688	22.590
40933	10	3.116	21.684					41073	27	23.506	7.036	41145	8	18.196	15.006	41217*	48	12.560	22.628
40934*	52	4.244	21.670					41074	11	24.051	7.508	41146	18	20.790	15.290	41218	11	12.796	22.529
40935	34	8.713	21.526					41075	21	24.770	7.292	41147	19	22.820	15.394	41219	9	15.106	22.696
40936	24	8.886	21.995					41076	9	25.007	7.166	41148*	54	23.158	15.212	41220	8	17.400	22.126
40937	17	14.874	21.004					41077*	43	2.199	8.008	41149	8	25.067	15.316	41221	13	17.408	22.912
40938	12	17.075	21.564					41078	8	2.294	8.192	41150	25	4.958	16.520	41222	8	17.946	22.663
40939	13	18.108	21.625					41079	12	5.040	8.443	41151	14	6.969	16.257	41223	20	20.844	22.186
40940	20	19.938	21.728					41080	13	6.983	8.122	41152	14	9.507	16.929	41224	11	20.920	22.419
40941	11	4.125	22.004					41081	14	8.541	8.892	41153	26	9.899	16.648	41225*	40	5.438	23.429
40942	16	4.668	22.490					41082	16	11.924	8.037	41154	19	19.290	16.276	41226*	47	7.620	23.107
40943	16	11.502	22.856					41083*	28	13.723	8.450	41155	10	21.224	16.370	41227	9	8.639	23.101
40944	12	11.524	22.974					41084*	40	13.852	8.668	41156	17	24.176	16.614	41228	8	14.087	23.700
40945	14	13.121	22.755					41085	9	17.474	9.484	41157	12	24.718	16.650	41229*	47	15.978	23.444
40946	21	16.057	22.364					41086	12	17.920	8.900	41158	8	0.584	17.732	41230	14	20.100	23.095
40947	36	0.324	23.928					41087	10	20.590	8.720	41159	31	4.558	17.009	41231	8	21.885	23.784
40948	18	5.544	23.015					41088	30	5.750	9.620	41160*	60	12.584	17.240	41232	10	22.282	23.166
40949	12	6.644	23.844					41089	26	12.217	9.408	41161	19	21.630	17.078	41233	9	24.272	23.492
40950	13	7.532	23.336					41090	8	13.458	9.434	41162	26	23.420	17.871	41234	8	25.394	23.849
40951	15	9.658	23.576					41091	12	15.782	9.182	41163	9	25.773	17.532	41235	8	2.450	24.721
40952	26	10.724	23.548					41092	8	16.453	9.702	41164	40	0.362	18.604	41236*	58	6.601	24.312
40953	36	16.403	23.045					41093	9	6.404	10.821	41165	8	2.279	18.966	41237	14	7.669	24.156
40954	13	17.560	23.804					41094	12	8.940	10.412	41166	19	2.610	18.130	41238	8	9.234	24.283
40955	9	23.432	23.264					41095	19	11.880	10.310	41167	21	2.632	18.164	41239	9	13.192	24.047
40956	14	1.126	24.496					41096	9	14.380	10.490	41168	10	4.324	18.030	41240	8	16.050	24.890
40957	17	4.914	24.458					41097	10	16.969	10.580	41169	9	9.731	18.146	41241	12	20.147	24.462
40958	12	5.296	24.187					41098	11	17.082	10.070	41170	8	13.884	18.211	41242	8	20.714	24.398
40959*	64	5.401	24.785					41099	8	17.830	10.807	41171	29	15.814	18.340	41243	12	22.332	24.740
40960	17	7.238	24.546					41100	10	17.888	10.728	41172	20	16.115	18.034	41244	33	22.721	24.121
40961*	62	9.300	24.341					41101	11	20.480	10.211	41173	10	16.130	18.640	41245	11	23.736	24.374
40962	16	11.391	24.732					41102	12	25.730	10.476	41174	8	18.192	18.860	41246	58	25.618	24.020
40963	16	14.946	24.974					41103	11	0.340	11.774	41175	8	19.434	18.813	41247	30	1.968	25.059
40964	54	15.063	24.816					41104	22	0.892	11.150	41176	15	22.886	18.204	41248	13	8.202	25.772
40965	16	17.469	24.942					41105	13	2.266	11.636	41177	23	23.024	18.738	41249	29	8.906	25.531
40966	8	19.025	24.291					41106	20	3.110	11.820	41178	13	25.330	18.710	41250	8	10.031	25.309
40967	15	22.904	24.126					41107	8	3.303	11.933	41179	9	2.193	19.476	41251	12	14.638	25.210
40968	42	24.052	24.743					41108	33	3.916	11.600	41180	8	6.878	19.330	41252	11	15.430	25.614

$$Mag.=17.1-1.05\sqrt{d}$$

No.	d	x	y	41371	34	21.186	5.842	41443	41	23.370	12.727	41515	27	0.700	20.276	41587	13	22.898	25.141
41301	8	0.094	0.867	41372	23	23.523	5.905	41444	24	24.301	12.016	41516	37	1.200	20.582	41588	37	23.465	25.202
41302	36	0.834	0.817	41373	54	0.821	6.792	41445	33	24.502	12.466	41517	13	5.459	20.326				
41303	26	1.208	0.062	41374	13	7.514	6.176	41446	43	24.814	12.166	41518	35	7.633	20.542				
41304	10	3.821	0.556	41375	26	13.714	6.508	41447	18	1.946	13.351	41519	39	8.400	20.073				
41305	33	4.936	0.086	41376	39	13.746	6.885	41448	15	2.580	13.789	41520	40	8.663	20.116				
41306	42	5.444	0.286	41377	18	14.025	6.844	41449	33	2.812	13.770	41521	19	8.670	20.443				
41307*	48	6.894	0.756	41378	14	21.566	6.256	41450	33	5.526	13.056	41522	37	12.452	20.954				
41308*	45	7.680	0.996	41379	8	22.864	6.434	41451	31	6.037	13.390	41523	36	18.398	20.258				
41309	24	8.857	0.456	41380	16	24.512	6.094	41452	43	9.784	13.638	41524	41	22.196	20.420				
41310	10	9.324	0.106	41381	16	25.682	6.794	41453	31	14.620	13.062	41525	15	22.936	20.258				
41311	8	11.242	0.836	41382	37	1.052	7.970	41454	20	19.388	13.990	41526	23	23.804	20.604				
41312	16	13.394	0.560	41383	39	1.220	7.351	41455*	42	24.415	13.901	41527	33	24.046	20.117				
41313	40	16.318	0.216	41384	19	1.772	7.813	41456	16	24.876	13.568	41528*	58	3.575	21.562				
41314	10	19.518	0.895	41385	37	2.488	7.592	41457	43	14.302	14.022	41529*	52	3.878	21.052				
41315	11	19.762	0.537	41386	14	2.724	7.464	41458*	55	16.625	14.874	41530	12	4.878	21.822				
41316	40	23.040	0.528	41387	11	6.054	7.926	41459	36	18.482	14.336	41531	38	17.060	21.484				
41317	11	24.414	0.318	41388	40	6.127	7.354	41460	33	20.840	14.700	41532*	80	20.010	21.125				
41318	49	25.277	0.516	41389	9	9.347	7.302	41461	38	0.644	15.716	41533	37	20.534	21.256				
41319	22	1.224	1.212	41390	15	12.385	7.700	41462*	67	0.977	15.528	41534	33	21.183	21.084				
41320	23	4.610	1.476	41391	32	20.938	7.775	41463	26	2.892	15.604	41535	28	22.478	21.188				
41321	19	11.842	1.770	41392	38	21.136	7.338	41464	22	4.666	15.534	41536	17	24.141	21.646				
41322	22	12.010	1.746	41393	15	25.086	7.534	41465	30	5.582	15.956	41537	13	2.107	22.230				
41323	8	12.238	1.266	41394	14	11.460	8.654	41466	37	11.884	15.304	41538	28	4.405	22.820				
41324*	46	12.838	1.064	41395*	80	12.057	8.328	41467	43	15.014	15.346	41539	23	5.919	22.027				
41325	10	13.762	1.397	41396*	78	14.456	8.833	41468	14	21.106	15.782	41540	27	6.840	22.602				
41326	8	15.561	1.291	41397	22	16.162	8.363	41469	39	21.713	15.068	41541*	46	10.135	22.514				
41327	9	18.375	1.052	41398	36	17.677	8.296	41470	44	24.650	15.922	41542	33	11.364	22.170				
41328	8	19.761	1.769	41399	21	18.354	8.024	41471	36	1.698	16.570	41543	22	17.048	22.752				
41329	8	22.824	1.654	41400	38	18.576	8.161	41472	35	2.016	16.918	41544	23	21.022	22.314				
41330	9	23.685	1.570	41401	18	21.303	8.620	41473	21	2.559	16.947	41545	23	21.362	22.693				
41331	8	0.333	2.198	41402	19	22.128	8.682	41474	34	9.125	16.664	41546	28	0.210	23.493				
41332	25	2.066	2.407	41403	36	23.410	8.890	41475	36	9.613	16.155	41547	25	2.202	23.794				
41333	32	12.746	2.181	41404	15	4.128	9.160	41476	35	10.722	16.726	41548	34	7.967	23.786				
41334	12	19.902	2.380	41405	19	4.850	9.374	41477	40	10.932	16.009	41549	30	9.526	23.190				
41335	38	22.108	2.909	41406*	75	5.195	9.356	41478	40	11.824	16.995	41550	40	11.343	23.816				
41336	37	23.704	2.380	41407	17	6.628	9.923	41479	39	13.266	16.399	41551*	43	11.618	23.428				
41337	76	25.560	2.547	41408	17	9.052	9.963	41480	36	14.241	16.293	41552	40	19.040	23.280				
41338	34	1.437	3.372	41409	10	13.224	9.588	41481	37	16.770	16.792	41553	39	19.240	23.425				
41339	29	3.284	3.640	41410	11	17.397	9.536	41482	30	18.638	16.846	41554	17	20.308	23.874				
41340	37	4.828	3.829	41411	36	18.555	9.492	41483	10	19.642	16.792	41555	40	20.997	23.894				
41341	39	6.574	3.636	41412	21	19.690	9.614	41484	21	20.756	16.292	41556*	54	22.010	23.314				
41342	43	7.700	3.862	41413*	80	20.686	9.236	41485	10	3.626	17.814	41557	40	24.810	23.581				
41343	24	14.732	3.019	41414	11	21.862	9.894	41486	36	5.184	17.080	41558	39	25.400	23.937				
41344	22	15.516	3.492	41415	26	22.482	9.384	41487	43	5.824	17.620	41559	48	0.659	24.445				
41345	20	16.630	3.044	41416	12	1.174	10.218	41488	10	7.928	17.269	41560	27	1.678	24.685				
41346	43	18.526	3.374	41417	32	3.488	10.764	41489	23	21.136	17.464	41561	27	3.332	24.134				
41347	37	21.159	3.281	41418	36	5.486	10.456	41490*	50	21.505	17.756	41562*	70	3.552	24.304				
41348	8	21.328	3.329	41419	33	6.806	10.638	41491	27	23.315	17.360	41563	23	4.308	24.455				
41349	34	22.236	3.187	41420	37	10.478	10.673	41492	40	24.005	17.597	41564	40	12.104	24.582				
41350	14	25.713	3.840	41421	28	10.709	10.554	41493	44	25.292	17.940	41565	8	13.952	24.409				
41351	10	7.143	4.754	41422	36	14.518	10.881	41494	36	0.745	18.526	41566	9	14.400	24.571				
41352	8	7.706	4.318	41423	23	14.694	10.451	41495	40	1.276	18.185	41567*	42	14.550	24.500				
41353	13	11.288	4.385	41424	44	15.414	10.622	41496	10	1.616	18.214	41568	35	15.174	24.100				
41354	39	14.460	4.364	41425	13	17.367	10.347	41497	30	3.196	18.996	41569	9	15.607	24.928				
41355	27	14.530	4.004	41426*	44	19.676	10.456	41498	20	14.798	18.913	41570	13	23.928	24.837				
				41427	40	22.274	10.439	41499	12	16.482	18.742	41571	19	24.068	24.668				

R.A. 15^h 12^m

Plate 688 ; 1916 April 26

Provisional Constants.

A

B

C

— .02545 + .00128 + .2364

D

E

F

— .00093 — .02580 — .2459

Mag. = 16.1 — 1.05√d

No.	d	x	y
41601	8	0.332	0.428
41602	13	0.701	0.410
41603	8	1.714	0.730
41604	10	2.074	0.194
41605*	40	2.931	0.388
41606	8	3.848	0.175
41607	9	5.065	0.203
41608	8	5.692	0.598
41609	13	7.708	0.990
41610	21	9.852	0.564
41611	8	14.320	0.700
41612	20	14.950	0.984
41613	12	18.155	0.303
41614	8	19.725	0.183
41615	8	23.100	0.656
41616	8	24.846	0.054
41617	10	1.350	1.450
41618	8	7.564	1.094
41619	15	7.729	1.407
41620	8	8.632	1.360
41621	10	16.098	1.066
41622	8	20.170	1.898
41623	27	21.266	1.010
41624	8	25.367	1.305
41625	8	25.481	1.946
41626	12	1.368	2.261
41627*	47	3.222	2.418
41628	12	9.236	2.833
41629	8	11.050	2.791
41630	10	11.496	2.327
41631	18	12.474	2.576

41632	8	12.705	2.350	41704	12	6.636	9.906	41776	9	25.776	16.045	41848	8	5.746	23.037	41914	8	24.194	0.390
41633	8	12.754	2.432	41705	8	7.747	9.086	41777	9	1.042	17.240	41849	14	11.896	23.989	41915	8	24.839	0.924
41634	14	18.724	2.898	41706	10	11.816	9.746	41778	13	1.739	17.472	41850	24	14.728	23.004	41916	8	2.234	1.785
41635	8	20.965	2.829	41707	9	18.336	9.298	41779	20	3.024	17.807	41851	10	15.902	23.045	41917	8	2.884	1.496
41636	12	22.000	2.564	41708	8	24.252	9.988	41780	8	8.310	17.854	41852	8	16.962	23.655	41918	12	10.500	1.347
41637	8	3.388	3.711	41709*	28	2.074	10.726	41781	8	9.623	17.997	41853	8	17.100	23.165	41919	32	13.631	1.398
41638	14	21.455	3.352	41710	13	4.726	10.222	41782	8	9.868	17.038	41854	9	17.890	23.714	41920	15	20.761	1.917
41639	8	21.669	3.425	41711	12	7.210	10.253	41783	22	21.549	17.500	41855	8	20.692	23.925	41921	24	22.526	1.306
41640	8	21.685	3.358	41712	10	9.488	10.427	41784	13	1.552	18.168	41856	8	1.686	24.714	41922	23	23.696	1.274
41641	8	23.301	3.528	41713	8	11.712	10.800	41785	8	2.422	18.536	41857	8	1.828	24.545	41923	8	24.526	1.591
41642	8	25.420	3.196	41714	8	12.297	10.923	41786	8	5.668	18.565	41858*	20	4.692	24.546	41924	10	5.073	2.880
41643	10	8.068	4.066	41715	13	15.275	10.285	41787	9	6.548	18.409	41859	11	4.870	24.271	41925	23	6.055	2.155
41644	8	8.480	4.382	41716	13	16.112	10.074	41788	12	8.363	18.496	41860	8	8.175	24.313	41926	10	6.750	2.263
41645	10	9.014	4.803	41717	13	19.052	10.280	41789*	18	13.922	18.475	41861	10	12.000	24.162	41927	13	7.389	2.161
41646	8	14.073	4.134	41718	8	19.326	10.512	41790	8	19.395	18.507	41862	8	14.412	24.459	41928	21	9.077	2.502
41647	8	18.532	4.551	41719*	32	19.887	10.650	41791	8	19.686	18.368	41863	10	15.752	24.266	41929	25	9.180	2.504
41648	8	18.963	4.714	41720	9	20.183	10.432	41792*	40	22.129	18.568	41864*	25	15.937	24.335	41930	22	10.204	2.067
41649	12	19.536	4.364	41721*	93	21.900	10.042	41793	9	0.623	19.483	41865	10	16.798	24.067	41931	12	20.616	2.427
41650	17	20.535	4.609	41722	10	22.028	10.590	41794	10	1.786	19.994	41866	10	18.456	24.732	41932	36	23.392	2.642
41651	8	24.479	4.505	41723*	48	22.992	10.764	41795*	82	3.646	19.234	41867	8	19.031	24.716	41933*	82	23.764	2.002
41652*	40	24.937	4.500	41724	9	24.535	10.350	41796	8	3.849	19.934	41868	8	19.157	24.214	41934	18	25.216	2.164
41653	8	25.355	4.873	41725	10	1.569	11.829	41797	28	7.365	19.161	41869	8	20.716	24.059	41935	8	0.840	3.744
41654	8	25.924	4.866	41726	9	2.003	11.888	41798*	24	11.996	19.995	41870	11	21.064	24.550	41936	8	2.764	3.106
41655	9	1.207	5.785	41727	25	7.864	11.663	41799	10	13.778	19.640	41871	8	23.134	24.362	41937	8	2.956	3.384
41656	8	2.195	5.972	41728*	82	17.868	11.533	41800	8	21.730	19.736	41872	8	23.608	24.550	41938*	36	8.666	3.102
41657*	113	4.310	5.368	41729	49	25.614	11.212	41801	25	23.474	19.186	41873	12	24.139	24.638	41939	12	9.464	3.020
41658	8	8.340	5.818	41730	23	1.076	12.604	41802	8	25.359	19.367	41874	9	25.729	24.916	41940	33	11.784	3.695
41659	12	9.614	5.404	41731	10	2.213	12.340	41803	8	1.545	20.482	41875	8	0.658	25.025	41941	16	12.630	3.496
41660	10	9.860	5.576	41732	26	2.521	12.040	41804	12	5.855	20.510	41876	10	1.225	25.083	41942	29	15.016	3.627
41661	20	10.395	5.008	41733	10	5.058	12.772	41805	8	7.748	20.356	41877	8	6.804	25.351	41943	28	23.198	3.374
41662	24	10.922	5.828	41734	10	12.780	12.840	41806	8	9.860	20.791	41878	10	7.980	25.042	41944*	42	2.489	4.695
41663	10	12.224	5.452	41735	8	13.874	12.765	41807*	25	11.509	20.949	41879	12	9.554	25.382	41945	8	5.310	4.172
41664	8	12.857	5.592	41736	12	14.494	12.831	41808	8	13.346	20.775	41880	24	12.316	25.002	41946	15	9.286	4.268
41665	9	12.870	5.215	41737	29	15.696	12.688	41809	20	14.725	20.423	41881	26	13.992	25.701	41947	22	12.422	4.816
41666	18	13.890	5.482	41738*	33	17.955	12.046	41810	9	23.496	20.366	41882	8	14.941	25.226	41948	20	18.738	4.341
41667	12	18.308	5.265	41739	16	24.357	12.391	41811	8	23.776	20.065	41883	24	15.100	25.360	41949	8	19.424	4.068
41668	8	19.426	5.300	41740	10	24.398	12.410	41812	10	25.054	20.139	41884	8	15.928	25.221	41950	9	24.306	4.327
41669	8	19.618	5.645	41741	8	24.874	12.217	41813	8	0.222	21.074	41885	10	16.790	25.076	41951	8	24.516	4.149
41670	10	20.784	5.334	41742*	31	2.125	13.776	41814	9	1.890	21.523	41886	28	17.671	25.545	41952	35	25.403	4.986
41671	8	22.843	5.789	41743	8	2.592	13.441	41815	10	8.297	21.761					41953	8	2.914	5.065
41672	8	24.080	5.532	41744*	100	4.055	13.088	41816*	26	8.624	21.144					41954	30	8.284	5.464
41673	10	3.365	6.666	41745*	60	4.159	13.206	41817	30	14.049	21.797					41955	30	10.036	5.634
41674	8	5.812	6.377	41746	28	19.194	13.882	41818	10	16.642	21.114					41956	13	10.322	5.298
41675	8	8.843	6.677	41747	10	19.430	13.390	41819*	60	17.770	21.831					41957	10	11.915	5.926
41676	10	10.604	6.035	41748	8	20.007	13.185	41820	21	19.765	21.092					41958	41	22.546	5.223
41677	8	15.212	6.625	41749	40	21.927	13.721	41821	8	20.084	21.806					41959	23	22.801	5.146
41678	18	18.110	6.484	41750	8	23.770	13.136	41822	20	22.221	21.413					41960	20	24.272	5.050
41679	10	18.198	6.835	41751	8	24.945	13.495	41823	12	22.816	21.680					41961	11	25.986	5.411
41680	8	19.475	6.583	41752	8	25.048	13.602	41824	14	24.044	21.618					41962	8	1.625	6.471
41681	14	20.639	6.668	41753	8	3.655	14.742	41825	8	2.257	22.928					41963	11	5.970	6.564
41682	10	21.149	6.606	41754	15	14.752	14.084	41826*	44	4.079	22.635					41964	15	8.716	6.850
41683	8	22.176	6.836	41755	9	16.905	14.159	41827	10	6.384	22.791					41965	15	14.992	6.400
41684	8	24.049	6.266	41756	20	20.075	14.408	41828	8	6.424	22.187					41966	16	15.842	6.213
41685	8	24.423	6.144	41757	25	20.682	14.420	41829	9	7.575	22.962					41967	8	21.486	6.308
41686	9	2.771	7.412	41758	10	21.038	14.715	41830	8	7.700	22.416					41968	8	3.362	7.441
41687	9	3.851	7.824	41759	10	22.506	14.720	41831	8	8.300	22.212					41969	10	5.230	7.691
41688	10	4.550	7.810	41760	9	23.148	14.150	41832	10	8.998	22.876					41970	11	6.748	7.586
41689	8	8.504	7.315	41761	9	23.401	14.838	41833	13	12.881	22.166					41971	35	6.920	7.974
41690	12	9.065	7.500	41762	22	2.371	15.796	41834	25	15.105	22.669					41972	15	15.910	7.823
41691	17	9.515	7.183	41763	10	4.380	15.687	41835	8	15.653	22.074					41973	21	18.620	7.253
41692	12	19.499	7.824	41764	11	5.231	15.360	41836	9	17.491	22.063					41974	10	19.160	7.505
41693	8	19.658	7.668	41765	8	5.490	15.979	41837	9	18.929	22.000					41975	29	22.766	7.451
41694	40	20.614	7.716	41766*	57	9.186	15.454	41838	8	19.404	22.525					41976	9	2.380	8.387
41695	10	21.228	7.682	41767	12	15.516	15.374	41839	13	20.696	22.368					41977	8	6.678	8.960
41696	8	25.772	7.255	41768*	36	22.276	15.896	41840	10	20.996	22.292					41978	15	7.135	8.436
41697	15	1.104	8.773	41769	10	22.835	15.486	41841	10	22.114	22.662					41979	11	8.168	8.390
41698	9	5.742																	

41986	8	20.764	8.312	42058	13	24.416	14.174	42130	27	18.174	22.096	42218	40	4.254	1.238	42290	46	14.892	6.443
41987	9	25.432	8.324	42059	10	25.025	14.620	42131	8	25.336	22.244	42219	27	4.677	1.091	42291	16	15.076	6.626
41988	8	25.642	8.290	42060	16	0.526	15.709	42132	20	5.245	23.076	42220	34	5.322	1.068	42292	30	17.995	6.664
41989	8	4.290	9.228	42061	9	1.084	15.053	42133	35	5.256	23.862	42221	41	10.725	1.491	42293	32	21.385	6.460
41990	33	12.664	9.608	42062	22	4.434	15.494	42134	9	5.966	23.747	42222*	58	13.572	1.949	42294	42	0.390	7.174
41991	8	13.309	9.011	42063	23	10.824	15.636	42135	30	8.686	23.314	42223	39	14.232	1.516	42295	8	2.625	7.232
41992	8	15.856	9.984	42064	26	10.847	15.644	42136	10	8.854	23.450	42224*	55	17.744	1.347	42296	10	3.276	7.975
41993	28	17.091	9.613	42065*	35	13.996	15.354	42137	8	13.634	23.904	42225	8	18.713	1.266	42297	43	3.974	7.945
41994	12	17.174	9.454	42066	11	17.440	15.414	42138	26	14.114	23.722	42226	8	22.826	1.513	42298	23	6.123	7.404
41995	12	23.602	9.422	42067*	35	17.976	15.365	42139	8	14.974	23.379	42227	44	24.200	1.374	42299	27	6.378	7.195
41996	9	24.475	9.644	42068	30	20.520	15.758	42140	8	21.376	23.801	42228	17	24.556	1.502	42300	8	6.675	7.818
41997	12	24.783	9.538	42069	10	3.477	16.230	42141	9	0.934	24.582	42229	8	24.779	1.436	42301	8	7.276	7.771
41998	37	25.418	9.910	42070	12	4.195	16.560	42142	10	1.412	24.763	42230	8	25.112	1.596	42302	17	8.400	7.020
41999	49	0.619	10.981	42071	34	6.435	16.623	42143	29	1.943	24.842	42231	8	25.446	1.942	42303	40	9.813	7.121
42000	8	1.876	10.194	42072	19	9.974	16.359	42144	8	4.556	24.300	42232	45	0.952	2.358	42304	35	10.212	7.380
42001	10	2.163	10.550	42073	24	13.464	16.323	42145	10	4.680	24.714	42233	40	7.114	2.545	42305*	76	10.235	7.418
42002	9	10.386	10.240	42074*	60	21.202	16.974	42146	14	12.030	24.604	42234	30	9.704	2.387	42306	40	10.585	7.203
42003	11	12.432	10.286	42075	22	21.712	16.053	42147	26	12.652	24.101	42235	38	10.610	2.090	42307	12	13.477	7.532
42004	8	14.364	10.326	42076	8	22.914	16.021	42148	17	21.452	24.992	42236	44	17.995	2.269	42308	10	13.764	7.487
42005	23	14.750	10.372	42077	8	3.916	17.389	42149*	54	23.024	24.973	42237	8	21.102	2.743	42309	12	14.485	7.810
42006	20	15.120	10.120	42078	8	4.860	17.561	42150	19	25.349	24.610	42238	15	25.758	2.969	42310	11	15.308	7.866
42007	16	18.464	10.026	42079	8	7.141	17.067	42151	26	4.716	25.582	42239	40	0.770	3.094	42311	32	19.558	7.399
42008	9	20.086	10.950	42080	8	11.506	17.800	42152	11	6.190	25.000	42240	10	2.099	3.849	42312	43	24.005	7.282
42009	12	22.454	10.726	42081	33	11.544	17.544	42153	9	14.910	25.670	42241	36	4.416	3.029	42313	33	24.218	7.102
42010	33	25.067	10.423	42082	8	12.124	17.516	42154	23	17.450	25.283	42242	36	5.836	3.035	42314	12	3.068	8.010
42011	10	25.166	10.669	42083	8	12.273	17.338	42155	8	17.956	25.060	42243	39	7.286	3.445	42315	24	3.132	8.945
42012*	55	3.246	11.398	42084	30	21.390	17.054	42156	8	19.175	25.949	42244	32	8.280	3.577	42316	42	5.296	8.744
42013	22	23.094	11.558	42085	25	23.064	17.782	42157	27	19.248	25.592	42245	30	10.114	3.829	42317	30	5.500	8.269
42014	12	24.444	11.276	42086*	52	5.374	18.306	42158	10	20.070	25.061	42246	13	13.816	3.583	42318	38	6.422	8.935
42015	23	25.155	11.375	42087	37	10.838	18.431	42159	10	20.708	25.684	42247	41	15.099	3.549	42319	16	10.447	8.965
42016	29	25.453	11.012	42088	8	14.440	18.572	42160	10	22.433	25.474	42248	40	15.134	3.354	42320	13	12.468	8.156
42017	17	2.012	12.594	42089	8	18.743	18.904					42249*	48	17.910	3.284	42321	40	14.543	8.424
42018	10	2.052	12.610	42090	23	18.778	18.972					42250	11	18.253	3.385	42322	28	16.620	8.909
42019	8	2.524	12.414	42091	8	19.975	18.049					42251	46	20.728	3.344	42323	44	16.680	8.236
42020	13	4.878	12.418	42092	19	20.547	18.024					42252	34	20.864	3.927	42324	40	19.360	8.229
42021*	32	10.466	12.868	42093	8	22.475	18.973					42253	41	21.036	3.378	42325	23	20.204	8.128
42022	11	13.454	12.604	42094	14	24.157	18.060					42254	23	21.934	3.356	42326	40	20.428	8.630
42023	28	14.018	12.476	42095	8	24.495	18.080					42255	13	25.511	3.151	42327	45	22.110	8.931
42024	8	18.478	12.060	42096	33	1.208	19.398					42256	47	25.554	3.180	42328*	64	22.525	8.720
42025	9	21.858	12.908	42097	9	3.864	19.292					42257	50	0.140	4.950	42329	30	23.505	8.666
42026	21	22.740	12.966	42098	12	4.810	19.346					42258	41	0.396	4.872	42330	39	24.330	8.035
42027	11	22.976	12.409	42099	8	7.119	19.418					42259	15	1.110	4.103	42331	8	25.462	8.712
42028	30	23.114	12.117	42100	9	8.734	19.074					42260	39	1.864	4.754	42332	34	25.884	8.768
42029	11	23.348	12.576	42101	18	12.833	19.746					42261	17	1.890	4.032	42333	25	1.253	9.134
42030	9	25.102	12.623	42102	17	13.734	19.737					42262	43	2.994	4.676	42334	11	2.132	9.346
42031	8	2.716	13.796	42103	8	17.194	19.685					42263	12	3.613	4.278	42335	24	2.435	9.236
42032	8	4.120	13.334	42104	16	20.948	19.704					42264	30	4.366	4.402	42336	48	3.074	9.598
42033	29	4.494	13.730	42105	21	21.392	19.309					42265	42	5.893	4.336	42337	24	5.558	9.862
42034	8	4.554	13.544	42106	22	22.606	19.526					42266	39	5.912	4.634	42338	38	5.800	9.562
42035	26	8.804	13.576	42107	25	25.454	19.026					42267	38	6.100	4.861	42339	39	6.174	9.840
42036	12	12.399	13.742	42108	8	1.246	20.580					42268	11	8.426	4.706	42340	16	7.235	9.970
42037	27	16.424	13.631	42109	9	1.524	20.274					42269	38	8.901	4.228	42341	8	7.500	9.716
42038	22	18.419	13.207	42110	12	2.804	20.333					42270*	94	14.874	4.732	42342	38	7.983	9.824
42039	9	21.085	13.682	42111	9	9.858	20.556					42271	14	16.574	4.464	42343	42	15.324	9.256
42040	10	23.424	13.770	42112	9	13.776	20.168					42272	13	19.814	4.320	42344	25	18.375	9.360
42041	11	23.706	13.684	42113	22	0.583	21.902					42273*	45	20.586	4.732	42345	14	18.654	9.638
42042	10	24.561	13.608	42114	27	1.808	21.824					42274	21	20.756	4.700	42346	40	25.553	9.946
42043*	50	24.693	13.686	42115	10	3.980	21.440					42275	18	20.748	4.556	42347	36	25.766	9.872
42044	8	24.842	13.138	42116	29	6.414	21.602					42276	12	0.899	5.105	42348	14	1.236	10.215
42045	12	0.189	14.946	42117*	38	8.609	21.389					42277	35	3.580	5.094	42349	11	2.120	10.975
42046	11	0.820	14.368	42118*	37	9.954	21.196					42278	37	4.624	5.578	42350	44	2.732	10.115
42047	8	5.536	14.971	42119	12	11.334	21.384					42279*	47	10.413	5.470	42351	8	2.834	10.361
42048	10	13.282	14.300	42120	10	18.383	21.314					42280	19	10.454	5.356	42352	41	3.126	10.700
42049*	82	13.324	14.498	42121	16	18.800	21.534					42281	43	10.943	5.453	42353	43	3.934	10.536
42050	14	16.356	14.694	42122	31	21.199	21.694					42282	10	11.111	5.036	42354	36	8.420	10.065
42051	16	16.800	14.350	42123	19	21.903	21.180					42283	10	14.494	5.474	42355	8	10.115	10.096
42052	20	16.956	14.750	42124	8	22.388	21.180					42284	9	20.762	5.589	42356	34	14.5	

42362	45	23.326	10.284	42434	21	16.198	16.821	42506	26	13.874	20.737	42656	8	4.902	4.534
42363	11	23.417	10.665	42435*	54	17.253	16.736	42507*	57	14.964	20.596	42657	24	6.036	4.696
42364	37	25.781	10.384	42436	18	17.596	16.304	42508	27	18.574	20.174	42658	12	7.416	4.842
42365	38	0.776	11.276	42437	41	18.574	16.436	42509	24	20.072	20.622	42659	10	14.112	4.030
42366	42	0.800	11.836	42438	41	19.789	16.286	42510	10	20.737	20.236	42660	9	23.714	4.731
42367	9	4.942	11.908	42439	25	20.020	16.914	42511	35	25.455	20.052	42661	12	1.504	5.780
42368	9	5.117	11.054	42440	16	21.316	16.806	42512	41	2.634	21.648	42662	13	4.143	5.718
42369	12	9.818	11.720	42441	44	22.509	16.874	42513	8	4.925	21.600	42663	36	5.034	5.814
42370	10	12.032	11.944	42442	17	23.004	16.257	42514	40	8.608	21.274	42664	8	8.275	5.100
42371	37	12.575	11.502	42443	33	24.168	16.262	42515	27	16.551	21.407	42665	14	10.748	5.274
42372	9	15.284	11.662	42444	40	0.825	17.503	42516	8	17.197	21.303	42666	36	11.225	5.609
42373	9	16.111	11.062	42445	29	1.926	17.766	42517*	43	19.002	21.204	42667	36	11.526	5.174
42374	23	18.482	11.514	42446	9	2.266	17.780	42518	26	19.403	21.722	42668	8	13.569	5.282
42375	15	23.110	11.277	42447	43	5.104	17.351	42519	46	22.160	21.646	42669	19	14.095	5.665
42376	41	23.484	11.620	42448	28	5.293	17.588	42520	40	22.616	21.919	42670*	38	16.625	5.300
42377	39	0.440	12.691	42449	8	5.697	17.412	42521	42	24.058	21.986	42671	11	17.484	5.576
42378	31	0.670	12.126	42450	40	6.103	17.446	42522	8	7.720	22.627	42672	8	17.548	5.839
42379	24	1.042	12.290	42451	32	8.850	17.304	42523	9	10.808	22.572	42673	36	18.770	5.338
42380	11	2.542	12.834	42452	40	9.760	17.130	42524	8	13.368	22.345	42674*	39	21.600	5.375
42381	13	2.798	12.315	42453	19	11.290	17.457	42525	21	17.040	22.520	42675	11	21.756	5.116
42382	40	4.024	12.955	42454	43	12.604	17.539	42526	9	17.866	22.634	42676	36	4.826	6.844
42383	43	5.292	12.559	42455	12	13.080	17.463	42527*	44	21.050	22.066	42677	26	4.924	6.362
42384	34	8.464	12.500	42456	8	13.435	17.354	42528*	72	23.846	22.850	42678	24	6.330	6.264
42385	24	11.149	12.932	42457	35	17.110	17.354	42529	9	2.900	23.564	42679	8	8.283	6.594
42386	16	19.383	12.265	42458	8	17.338	17.368	42530	10	4.274	23.228	42680	50	9.064	6.744
42387	8	20.361	12.218	42459	34	19.914	17.266	42531	9	4.509	23.689	42681	22	10.568	6.280
42388	9	20.742	12.875	42460	43	23.526	17.544	42532	20	13.594	23.160	42682	26	10.644	6.659
42389*	77	22.546	12.226	42461	31	25.406	17.045	42533	40	19.030	23.340	42683	8	12.026	6.876
42390	37	23.406	12.947	42462	29	25.504	17.436	42534*	70	0.880	24.694	42684	8	16.593	6.816
42391	33	24.600	12.946	42463	17	0.256	18.700	42535	34	3.204	24.296	42685	13	17.136	6.694
42392	38	25.104	12.375	42464	37	3.236	18.712	42536	14	5.464	24.812	42686*	36	18.622	6.546
42393	34	25.656	12.418	42465	31	4.456	18.835	42537	15	6.611	24.385	42687	14	22.333	6.574
42394	23	1.134	13.486	42466*	91	5.406	18.032	42538*	77	9.610	24.660	42688	32	23.192	6.544
42395	32	1.416	13.392	42467	43	5.810	18.406	42539	9	10.995	24.932	42689	32	1.753	7.786
42396	9	1.986	13.158	42468	29	6.391	18.054	42540	8	11.311	24.148	42690	14	1.956	7.606
42397	30	2.134	13.874	42469	23	7.319	18.406	42541	38	11.369	24.292	42691	8	7.008	7.834
42398	13	2.272	13.308	42470	9	10.326	18.354	42542	8	12.496	24.190	42692	16	8.605	7.284
42399*	67	2.395	13.386	42471	11	11.280	18.322	42543	48	13.057	24.186	42693	12	12.504	7.174
42400	39	3.810	13.913	42472	39	15.836	18.484	42544	9	15.920	24.062	42694	14	15.746	7.034
42401*	56	7.970	13.936	42473	34	16.276	18.883	42545	24	18.396	24.416	42695	14	21.148	7.216
42402	24	8.062	13.996	42474*	47	17.117	18.832	42546	42	18.530	24.066	42696	20	2.082	8.536
42403	40	9.845	13.602	42475	19	22.394	18.918	42547	41	19.922	24.404	42697	40	4.597	8.878
42404	39	13.797	13.824	42476	9	23.344	18.924	42548	8	22.942	24.914	42698	9	6.886	8.676
42405	11	19.144	13.852	42477	16	23.487	18.634	42549	58	23.844	24.998	42699	12	10.706	8.375
42406	8	20.309	13.192	42478	23	24.384	18.753	42550	44	24.114	24.100	42700	11	11.814	8.025
42407	31	24.290	13.285	42479	32	25.226	18.226	42551	40	25.410	24.122	42701	14	13.610	8.731
42408	8	24.915	13.739	42480	39	0.394	19.252	42552	8	0.300	25.202	42702	28	16.690	8.035
42409	8	25.409	13.412	42481	10	1.290	19.138	42553	32	4.565	25.192	42703	44	18.596	8.234
42410	31	2.746	14.313	42482	10	4.275	19.220	42554	35	5.550	25.215	42704	8	20.686	8.202
42411	42	4.423	14.318	42483	8	5.145	19.998	42555	31	5.886	25.385	42705	8	24.334	8.847
42412	40	5.394	14.804	42484	24	5.554	19.166	42556	28	7.478	25.700	42706	48	0.280	9.244
42413	39	6.502	14.259	42485	29	6.120	19.392	42557	33	8.110	25.276	42707	14	1.264	9.179
42414	27	14.758	14.607	42486	8	9.178	19.200	42558	9	10.110	25.559	42708	16	3.644	9.254
42415	13	16.300	14.288	42487	29	9.548	19.065	42559	32	10.845	25.202	42709	9	3.884	9.540
42416	41	22.634	14.240	42488	40	13.573	19.690	42560	20	12.429	25.866	42710	21	3.935	9.668
42417	25	24.630	14.915	42489	10	14.606	19.506	42561	12	13.438	25.794	42711	19	6.296	9.451
42418	8	0.654	15.739	42490	8	15.062	19.654	42562	11	17.730	25.782	42712*	48	9.612	9.416
42419	34	4.717	15.651	42491	8	18.108	19.734	42563	41	19.561	25.001	42713	30	10.044	9.286
42420	39	5.140	15.770	42492	23	18.282	19.732	42564	31	21.065	25.034	42714	8	10.586	9.657
42421	30	5.724	15.520	42493	40	18.416	19.957	42565	8	22.954	25.410	42715	8	12.755	9.484
42422	8	6.360	15.747	42494	48	19.126	19.815	42566	35	24.911	25.846	42716	36	13.024	9.796
42423	39	9.861	15.787	42495	17	21.065	19.804					42717	10	14.574	9.924
42424	32	14.160	15.608	42496	40	21.320	19.877					42718	34	15.814	9.362
42425	36	15.267	15.219	42497	23	22.644	19.188					42719	16	17.424	9.748
42426	40	19.521	15.716	42498	21	24.484	19.766					42720	17	19.576	9.906
42427	38	22.360	15.953	42499	42	24.854	19.219					42721	8	19.753	9.362
42428	39	23.306	15.958	42500	10	25.199	19.374					42722	9	23.967	9.206
42429	46	23.848	15.260	42501	12	0.200	20.907					42723	18	24.980	9.562
42430	42	4.608	16.086	42502	13	5.078	20.831					42724	36	1.103	10.798
42431	37	7.415	16.600	42503	29	5.734	20.600					42725	8	2.086	10.904
42432	14	10.586	16.048	42504	26	10.806	20.494					42726	10	2.876	10.149
42433	36	15.528	16.881	42505	13	13.084	20.466					42727	17	3.324	10.435

R.A. 15^h 36^m

Plate 712; 1916 May 1.

Provisional Constants.

$$A \quad B \quad C$$

$$-0.02575 + 0.00578 + 0.0802$$

$$D \quad E \quad F$$

$$-0.00529 - 0.02561 - 0.0205$$

Mag. = 16.7 - 1.05√d

No.	d	r	y
42601	20	0.508	0.41
42602	17	1.321	0.67
42603	18	2.506	0.55
42604	12	4.332	0.80
42605	8	7.642	0.69
42606	8	9.312	0.53
42607	24	10.086	0.59
42608*	50	10.530	0.61
42609	11	10.816	0.11
42610	26	12.425	0.11
42611	18	13.050	0.95
42612	8	15.184	0.55
42613	20	16.735	0.80
42614	21	17.605	0.89
42615	9	18.171	0.54
42616	9	19.106	0.94
42617	8	19.224	0.50
42618	36	22.425	0.88
42619	23	23.634	0.52
42620	13	0.329	1.06
42621	32	1.876	1.87
42622	8	2.456	1.93
42623	34	8.064	1.58
42624	32	10.288	1.70
42625	12	13.435	1.15
42626	8	13.756	1.55
42627*	46	14.125	1.52
42628	8	18.741	1.26
42629	30	20.098	1.08
42630	12	20.342	1.21
42631	14	24.913	1.40
42632	9	0.506	2.03
42633	8	2.793	2.09
42634	8	3.133	2.42
42635	13	6.142	2.72
42636	15	12.486	2.28
42637	34	14.352	2.22
42638	15	14.978	2.38
42639	16	15.495	2.50
42640	21	16.344	2.38
42641	36	16.615	2.20
42642	10	17.144	2.37
42643	20	17.402	2.50
42644	10	19.134	2.29
42645	20	23.718	2.47
42646	11	23.912	2.18
42647*	40	3.249	3.67
42648	12	3.454	3.45
42649	17	3.866	3.94
42650	17	4.264	3.02
42651	44	8.906	3.23
42652	8	16.558	3.82
42653	10	23.896	3.67
42654	16	25.254	3.98
42655*	80	4.411	4.88

42728	11	3.536	10.360	42800	19	22.696	15.702	42872	8	3.232	21.460	R.A. 15 ^h 44 ^m Plate 689; 1916 April 26. Provisional Constants. A B C --02574 +.00453 +.2523 D E F --00464 --.02594 --.3498 Mag. = 16.3 - 1.05√d	43006	13	8.330	6.340
42729	13	3.556	10.872	42801	22	0.197	16.476	42873	36	7.725	21.992		43007*	37	8.378	6.058
42730	28	19.686	10.654	42802	14	0.846	16.774	42874	36	10.876	21.743		43008	20	12.442	6.702
42731	8	20.744	10.834	42803	15	1.146	16.473	42875	17	11.576	21.566		43009	14	14.652	6.620
42732	38	24.902	10.900	42804	14	2.011	16.766	42876	34	12.622	21.794	43010	9	21.886	6.302	
42733	38	25.716	10.564	42805	12	5.644	16.446	42877	17	15.764	21.596	43011	10	6.400	7.037	
42734	8	0.896	11.791	42806	36	9.381	16.922	42878	28	17.352	21.426	43012	12	7.330	7.056	
42735	8	1.198	11.176	42807	11	9.636	16.184	42879	10	17.920	21.345	43013	9	8.118	7.011	
42736	17	6.116	11.298	42808	8	10.724	16.753	42880	30	20.156	21.506	43014	8	9.304	7.184	
42737	11	7.713	11.786	42809	19	21.344	16.564	42881	8	21.404	21.466	43015	14	9.732	7.488	
42738*	44	9.116	11.434	42810	14	23.846	16.686	42882*	76	22.966	21.833	43016	12	12.919	7.054	
42739	17	10.375	11.235	42811	22	24.598	16.951	42883	11	24.426	21.138	43017*	110	13.373	7.548	
42740	19	16.406	11.182	42812	36	0.356	17.396	42884	40	25.135	21.994	43018	15	14.395	7.486	
42741	8	18.937	11.252	42813	14	3.257	17.535	42885	40	0.056	22.174	43019	8	17.577	7.922	
42742	8	21.068	11.816	42814	12	3.357	17.925	42886	36	0.516	22.438	43020	8	21.578	7.200	
42743	12	22.510	11.902	42815	11	4.892	17.416	42887	36	1.960	22.490	43021	16	22.386	7.046	
42744	34	25.228	11.580	42816	11	9.664	17.458	42888	16	6.866	22.756	43022	8	23.236	7.740	
42745	56	0.336	12.746	42817	14	11.957	17.876	42889	8	12.700	22.874	43023	9	23.744	7.455	
42746	20	1.275	12.128	42818*	56	12.954	17.692	42890	20	13.386	22.413	43024	8	2.198	8.640	
42747	14	2.905	12.872	42819	8	13.058	17.542	42891	8	17.613	22.720	43025	9	5.828	8.397	
42748	14	3.453	12.906	42820	32	13.748	17.464	42892	8	18.844	22.842	43026	30	10.550	8.971	
42749	11	5.582	12.727	42821	8	16.108	17.488	42893	8	19.138	22.656	43027	18	16.489	8.037	
42750	28	6.681	12.326	42822	32	17.864	17.212	42894	11	21.571	22.676	43028	10	16.679	8.582	
42751*	36	6.692	12.455	42823	23	18.055	17.364	42895	30	22.172	22.902	43029	8	17.138	8.161	
42752*	37	6.715	12.824	42824	20	19.251	17.305	42896	8	24.538	22.646	43030	8	19.660	8.090	
42753	34	9.160	12.319	42825	9	19.926	17.415	42897	36	24.652	22.055	43031*	59	22.882	8.385	
42754	12	9.576	12.213	42826*	41	21.592	17.644	42898*	64	1.756	23.355	43032	14	2.850	9.347	
42755	30	12.046	12.422	42827	12	22.154	17.944	42899	30	11.166	23.935	43033	26	6.062	9.008	
42756	36	16.828	12.900	42828	9	22.731	17.127	42900	28	20.364	23.886	43034*	74	6.322	9.736	
42757	11	17.915	12.914	42829	11	22.836	17.015	42901	37	22.171	23.897	43035*	51	16.356	9.254	
42758	14	18.514	12.124	42830	10	22.907	17.366	42902	12	23.446	23.366	43036	12	16.618	9.806	
42759	8	19.838	12.742	42831	17	25.676	17.706	42903	12	24.124	23.124	43037*	36	2.786	10.686	
42760	9	23.106	12.456	42832	36	1.382	18.055	42904	18	24.445	23.312	43038*	37	3.593	10.342	
42761	8	23.114	12.676	42833	14	3.090	18.720	42905	40	24.763	23.205	43039	24	4.120	10.859	
42762	9	23.704	12.132	42834	32	7.586	18.736	42906	32	24.976	23.926	43040	16	5.800	10.706	
42763	12	23.824	12.554	42835*	36	11.206	18.378	42907	36	2.040	24.605	43041	11	7.616	10.281	
42764	12	24.226	12.296	42836	56	12.308	18.306	42908	30	3.336	24.612	43042	8	11.096	10.398	
42765	16	1.211	13.462	42837	14	20.636	18.748	42909*	114	5.008	24.034	43043*	90	13.872	10.358	
42766	12	2.101	13.790	42838	14	21.726	18.566	42910	8	6.636	24.166	43044	17	14.977	10.568	
42767	12	2.406	13.448	42839	30	25.012	18.196	42911	16	9.142	24.320	43045	8	18.734	10.306	
42768	11	5.776	13.951	42840	12	25.838	18.509	42912	10	9.168	24.324	43046	9	21.578	10.612	
42769	10	19.054	13.482	42841	12	0.264	19.442	42913	10	10.393	24.905	43047	8	0.406	11.707	
42770	34	19.285	13.376	42842	15	0.517	19.706	42914	15	11.995	24.945	43048	21	3.120	11.364	
42771	8	19.664	13.906	42843	8	1.215	19.440	42915	36	18.550	24.466	43049	30	14.288	11.272	
42772	12	22.050	13.904	42844	12	1.355	19.146	42916	32	20.195	24.904	43050	11	18.824	11.156	
42773	12	24.874	13.338	42845	9	2.254	19.256	42917	12	22.582	24.565	43051	11	21.275	11.182	
42774	8	25.494	13.004	42846	30	2.726	19.716	42918	14	23.622	24.646	43052	10	1.724	12.350	
42775	24	0.454	14.759	42847	11	5.810	19.334	42919	46	25.073	24.883	43053	8	2.127	12.088	
42776*	58	3.916	14.066	42848	12	6.138	19.715	42920	12	0.878	25.430	43054	18	7.480	12.884	
42777	22	6.322	14.696	42849	16	6.764	19.828	42921	52	1.779	25.506	43055	24	7.537	12.233	
42778	28	16.957	14.786	42850	17	6.854	19.975	42922	12	4.735	25.672	43056*	31	15.420	12.102	
42779	14	18.635	14.835	42851	36	8.914	19.004	42923	8	7.224	25.396	43057	9	20.653	12.774	
42780	21	18.741	14.730	42852	16	10.022	19.797	42924	11	7.515	25.114	43058	8	24.056	12.746	
42781	11	18.948	14.110	42853	10	17.158	19.980	42925	10	7.680	25.554	43059	8	2.780	13.123	
42782	9	19.158	14.314	42854	36	19.235	19.724	42926	26	7.824	25.902	43060	9	7.192	13.229	
42783	36	20.980	14.277	42855	15	23.666	19.794	42927	18	10.025	25.365	43061	8	7.657	13.071	
42784	32	21.844	14.584	42856	12	24.860	19.635	42928	37	10.136	25.236	43062*	44	9.166	13.812	
42785	35	22.654	14.428	42857	12	2.364	20.266	42929	13	11.736	25.204	43063	14	9.894	13.999	
42786	20	25.788	14.535	42858	16	3.336	20.541	42930	64	13.353	25.915	43064	29	10.026	13.496	
42787	8	0.184	15.634	42859	12	5.967	20.253	42931	10	13.449	25.427	43065	15	18.346	13.182	
42788	8	0.3														

43078	9	8.107	15.102	43150	15	11.644	23.203	43228	8	8.048	2.986	43300*	60	7.602	9.513	43372	8	20.098	17.433
43079	8	12.814	15.546	43151	12	13.084	23.230	43229	10	8.492	2.414	43301	9	11.318	9.643	43373	10	20.572	17.344
43080	8	19.084	15.973	43152	14	14.480	23.262	43230	20	9.936	2.156	43302	8	17.512	9.799	43374	26	22.264	17.284
43081	8	1.788	16.480	43153	11	14.570	23.810	43231	8	12.453	2.215	43303	14	24.904	9.808	43375	10	2.937	18.224
43082	12	2.541	16.736	43154	8	15.219	23.122	43232	12	14.256	2.055	43304	8	0.066	10.812	43376	8	3.108	18.264
43083	11	7.424	16.440	43155	8	16.871	23.525	43233*	44	14.638	2.161	43305	8	4.358	10.100	43377	33	3.318	18.565
43084	8	7.556	16.816	43156	26	17.306	23.440	43234	11	14.854	2.390	43306	25	9.107	10.430	43378	27	4.248	18.712
43085	20	10.534	16.718	43157	9	17.906	23.157	43235*	33	15.700	2.834	43307	8	13.298	10.751	43379	8	5.831	18.394
43086*	74	11.222	16.923	43158	17	2.740	24.944	43236	10	15.983	2.126	43308	8	13.662	10.128	43380*	40	7.001	18.407
43087	20	20.650	16.064	43159*	41	3.090	24.661	43237	9	0.084	3.975	43309	8	18.170	10.849	43381	10	7.240	18.909
43088	8	0.108	17.757	43160	12	11.731	24.318	43238	8	1.396	3.750	43310	12	19.480	10.690	43382	14	10.256	18.284
43089	20	2.966	17.975	43161	9	25.319	24.772	43239	10	2.185	3.360	43311	10	21.458	10.116	43383	8	14.968	18.236
43090	8	3.628	17.482	43162	8	25.933	24.147	43240	17	7.562	3.808	43312	34	22.262	10.836	43384	9	18.285	18.800
43091	12	7.868	17.049	43163	11	3.649	25.670	43241	13	7.895	3.848	43313	8	24.691	10.732	43385	12	20.162	18.710
43092	8	11.378	17.326	43164	8	9.905	25.900	43242	11	10.150	3.719	43314	10	1.253	11.594	43386	8	22.088	18.465
43093	8	11.404	17.359	43165	33	10.344	25.216	43243	12	11.176	3.646	43315	8	6.956	11.486	43387	8	0.483	19.015
43094	8	12.462	17.837	43166	22	13.900	25.952	43244	11	14.068	3.042	43316	11	8.505	11.382	43388	8	3.564	19.589
43095*	30	15.496	17.078	43167	10	18.819	25.167	43245	32	15.552	3.806	43317	10	8.988	11.080	43389	10	6.126	19.652
43096	15	21.000	17.227	43168	18	20.660	25.919	43246	10	16.562	3.461	43318	8	21.195	11.752	43390	12	6.724	19.518
43097	12	22.437	17.412	43169	45	22.900	25.114	43247	28	18.256	3.008	43319	10	21.879	11.099	43391	8	6.794	19.960
43098	8	25.368	17.900	43170	20	25.624	25.025	43248*	44	21.238	3.397	43320	12	22.716	11.900	43392	33	9.097	19.935
43099	14	4.749	18.700					43249	14	21.566	3.248	43321	8	25.710	11.440	43393	24	9.195	19.894
43100	10	8.497	18.752					43250	11	0.726	4.421	43322	15	7.283	12.932	43394	35	10.246	19.637
43101	13	12.593	18.086					43251	11	0.830	4.614	43323*	47	8.164	12.194	43395	22	15.164	19.499
43102	10	15.712	18.084					43252	27	3.022	4.697	43324	23	9.158	12.722	43396	12	15.230	19.059
43103	11	19.186	18.424					43253	18	7.188	4.231	43325	8	11.210	12.388	43397	10	16.617	19.905
43104	13	21.084	18.324					43254	25	11.660	4.762	43326	8	11.962	12.424	43398	33	16.676	19.829
43105	11	21.127	18.664					43255	8	13.484	4.885	43327	24	12.160	12.512	43399	28	24.068	19.337
43106	26	25.580	18.203					43256	22	16.994	4.065	43328	36	17.616	12.166	43400	34	25.631	19.216
43107	14	1.637	19.590					43257	10	18.535	4.682	43329	10	1.746	13.122	43401	8	1.839	20.265
43108	8	2.828	19.419					43258	10	20.292	4.539	43330	31	4.900	13.776	43402*	56	2.329	20.272
43109	14	14.275	19.658					43259	14	2.794	5.786	43331	13	6.192	13.402	43403	8	6.864	20.965
43110*	66	18.212	19.703					43260	13	3.998	5.759	43332	9	6.524	13.832	43404	8	6.950	20.770
43111	12	20.454	19.068					43261	17	6.168	5.219	43333*	32	8.529	13.200	43405	13	9.116	20.224
43112*	53	24.580	19.900					43262	8	7.593	5.736	43334	12	8.934	13.376	43406	8	17.646	20.326
43113	8	2.412	20.932					43263	9	9.255	5.036	43335	8	10.658	13.532	43407*	41	21.834	20.516
43114	10	10.236	20.664					43264	22	9.500	5.014	43336	18	10.868	13.700	43408	8	1.592	21.022
43115	16	11.624	20.299					43265	8	10.878	5.654	43337	8	18.068	13.798	43409	14	3.806	21.398
43116	8	17.344	20.845					43266	8	20.916	5.788	43338	18	18.424	13.646	43410	9	3.855	21.434
43117	8	23.836	20.645					43267	33	20.991	5.242	43339	12	24.244	13.746	43411	10	4.273	21.348
43118	8	0.932	21.836					43268	8	21.934	5.664	43340	8	3.802	14.805	43412	8	8.245	21.066
43119	78	0.950	21.632					43269	11	22.212	5.554	43341	8	11.205	14.465	43413	12	10.338	21.756
43120	17	2.646	21.840					43270	10	22.320	5.804	43342	8	13.142	14.802	43414	21	11.485	21.937
43121	30	3.126	21.774					43271	8	22.360	5.821	43343*	42	14.651	14.764	43415	8	17.504	21.586
43122	17	4.016	21.724					43272	12	22.516	5.138	43344	9	18.924	14.118	43416	8	19.336	21.282
43123	8	4.728	21.146					43273	8	22.554	5.312	43345	9	19.436	14.111	43417	14	22.108	21.932
43124*	59	5.341	21.941					43274	8	1.900	6.818	43346	8	19.941	14.936	43418	40	0.132	22.493
43125	8	14.448	21.832					43275	8	5.761	6.562	43347	29	22.278	14.570	43419	8	2.134	22.174
43126	10	14.708	21.738					43276	10	7.275	6.305	43348	14	25.254	14.424	43420	22	2.616	22.214
43127	28	17.612	21.548					43277	8	10.376	6.113	43349	8	0.306	15.729	43421	8	4.692	22.572
43128	8	24.363	21.801					43278*	55	14.862	6.244	43350	36	1.708	15.335	43422	37	10.666	22.354
43129	15	24.844	21.844					43279	8	20.293	6.045	43351	33	4.658	15.126	43423	23	11.156	22.620
43130	14	0.171	22.712					43280	8	20.932	6.048	43352	15	5.394	15.373	43424	8	15.934	22.976
43131	8	2.125	22.912					43281	34	22.400	6.166	43353	8	6.070	15.979	43425	11	18.763	22.652
43132	35	2.762	22.988					43282	8	24.100	6.889	43354	11	6.424	15.588	43426	8	20.764	22.204
43133*	43	9.924	22.912					43283	8	25.036	6.188	43355	8	7.418	15.550	43427	14	24.278	22.474
43134	12	10.220	22.511					43284	8	25.818	6.017	43356	8	9.178	15.444	43428	8	24.337	22.664
43135	8	10.927	22.076					43285	22	0.018	7.436	43357	11	12.330	15.884	43429	8	1.951	23.270
43136	8	11.232	22.482					43286	9	1.386	7.834	43358	20	18.606	15.584	43430	8	5.954	23.590
43137	8	14.976	22.274					43287	10	2.456	7.954	43359	15	18.616	15.656	43431	10	8.043	23.040
43138	16	17.904	22.363					43288	10	7.748	7.574	43360	8	24.376	15.726	43432	8	8.246	23.322
43139	16	19.630	22.286					43289*	40	8.029	7.776	43361	10	2.174	16.464	43433	12	11.590	23.280
43140	38	21.167	22.433					43290	8	11.711	7.046	43362	8	7.845	16.286	43434	8	11.841	23.491
43141*	38	22.358	22.100					43291	12	16.550	7.284	43363	36	8.892	16.271	43435	14	12.706	23.886
43142	8	23.558	22.627					43292	11	21.319	7.220	43364	20	18.377	16.067	43436	20	14.038	23.702
43143	36	0.182	23.710					43293	66	0.526	8.770	43365	33	14.546	16.484	43437	8	15.736	23.854
43144	12	2.448	23.098					43294	14	0.880	8.126	43366	8	18.896	16.490	43438	8	15.943	23.948
43145	15	2.987	23.708					43295	14	6.396	8.074	43367	19	0.170	17.803	43439	9	17.294	23.194
43146	20																		

43444	14	3.726	24.503	43526	45	13.046	2.423	43598	20	12.494	9.826	43670	50	12.338	17.634	43742	19	8.076	24.248
43445	10	3.904	24.006	43527	37	13.834	2.356	43599	17	13.008	9.610	43671	24	3.791	18.980	43743	21	8.094	24.734
43446	17	7.475	24.896	43528	16	16.420	2.384	43600	40	14.814	9.484	43672	41	5.186	18.299	43744	8	11.212	24.286
43447	23	9.584	24.770	43529	12	20.014	2.272	43601	35	19.717	9.409	43673	30	6.196	18.411	43745	17	20.370	24.685
43448	11	10.310	24.954	43530	17	20.328	2.272	43602	12	22.358	9.355	43674	11	7.598	18.274	43746	10	25.814	24.122
43449	35	10.470	24.044	43531	31	21.100	2.016	43603	18	25.486	9.157	43675	10	8.976	18.602	43747	15	1.635	25.367
43450	33	12.552	24.123	43532	19	22.936	2.018	43604	16	25.532	9.676	43676	32	9.739	18.476	43748	13	2.703	25.954
43451	8	13.370	24.659	43533	26	23.914	2.144	43605	14	2.305	10.588	43677	8	10.678	18.802	43749	16	5.905	25.372
43452	9	14.126	24.974	43534	14	25.133	2.468	43606	31	3.645	10.466	43678	20	22.770	18.952	43750	22	6.351	25.117
43453	24	14.416	24.832	43535	17	5.440	3.018	43607	13	5.266	10.326	43679	38	1.782	19.203	43751	42	8.959	25.468
43454	11	15.082	24.304	43536	27	7.084	3.925	43608	8	6.919	10.734	43680	43	3.340	19.062	43752	24	9.561	25.524
43455	8	15.210	24.886	43537	17	13.514	3.921	43609	9	16.266	10.099	43681	15	3.834	19.656	43753	45	10.404	25.938
43456*	35	21.986	24.402	43538	13	19.235	3.919	43610	38	20.067	10.430	43682	14	3.986	19.184	43754	50	14.014	25.304
43457	8	22.657	24.881	43539	29	24.308	3.033	43611	25	20.098	10.286	43683	39	4.676	19.098	43755	19	14.606	25.746
43458	44	0.702	25.502	43540	10	3.594	4.798	43612	43	22.592	10.857	43684	32	10.888	19.690	43756	19	14.966	25.764
43459	12	3.122	25.138	43541	41	5.380	4.032	43613	17	23.140	10.667	43685	41	13.508	19.926	43757	40	16.353	25.937
43460	30	3.425	25.386	43542	13	7.046	4.370	43614	9	24.754	10.704	43686	8	18.917	19.193	43758	10	24.784	25.516
43461	100	5.270	25.332	43543	30	10.395	4.944	43615	32	0.342	11.781	43687	11	2.264	20.480				
43462	21	6.862	25.036	43544	18	10.496	4.764	43616	11	4.122	11.558	43688	40	11.508	20.479				
43463	16	8.451	25.092	43545	26	10.939	4.006	43617*	61	4.140	11.150	43689	44	13.236	20.508				
43464	8	10.563	25.782	43546	20	13.431	4.756	43618	10	4.820	11.104	43690	10	15.423	20.762				
43465	8	18.350	25.058	43547	12	14.202	4.210	43619	39	7.434	11.671	43691	26	17.150	20.932				
43466	8	23.844	25.504	43548	41	16.219	4.850	43620	14	15.120	11.883	43692	28	17.648	20.430				
				43549	29	16.415	4.810	43621	40	21.464	11.366	43693	44	18.198	20.320				
				43550	27	20.854	4.865	43622	20	22.507	11.261	43694*	80	21.840	20.876				
				43551	37	22.974	4.696	43623	42	23.756	11.970	43695	20	22.486	20.660				
				43552	29	0.061	5.022	43624	8	24.475	11.154	43696	21	23.764	20.912				
				43553	10	0.102	5.197	43625	41	25.454	11.076	43697	17	3.726	21.003				
				43554	11	1.085	5.424	43626*	60	5.964	12.294	43698	9	4.052	21.455				
				43555	11	3.372	5.861	43627	8	9.746	12.044	43699	35	4.530	21.335				
				43556	36	4.117	5.920	43628	13	11.788	12.967	43700	14	5.027	21.638				
				43557	8	6.164	5.814	43629	9	12.222	12.269	43701	9	10.475	21.235				
				43558	12	6.216	5.624	43630	23	14.056	12.002	43702	9	10.520	21.146				
				43559	36	12.623	5.045	43631	44	14.698	12.928	43703	13	12.595	21.502				
				43560	8	17.247	5.312	43632	34	15.124	12.926	43704	13	16.194	21.627				
				43561	10	20.232	5.169	43633	16	16.234	12.633	43705	37	16.414	21.295				
				43562	14	1.664	6.754	43634*	116	19.351	12.018	43706	8	18.194	21.184				
				43563	17	2.594	6.044	43635	41	20.680	12.486	43707	35	19.446	21.839				
				43564	15	7.760	6.257	43636	20	22.644	12.476	43708	24	19.656	21.750				
				43565	23	13.002	6.144	43637	23	22.604	12.766	43709	35	20.800	21.502				
				43566	21	13.718	6.551	43638	8	24.256	12.522	43710	45	21.960	21.486				
				43567	39	13.802	6.570	43639	44	24.334	12.520	43711	30	2.032	22.334				
				43568	9	15.146	6.755	43640	18	1.893	13.610	43712	9	2.088	22.526				
				43569	21	16.554	6.710	43641	10	7.123	13.055	43713	10	4.695	22.052				
				43570	12	19.420	6.988	43642	45	9.452	13.735	43714	14	5.577	22.073				
				43571	31	20.512	6.106	43643	19	13.356	13.228	43715*	53	7.918	22.052				
				43572	32	21.754	6.816	43644	40	15.174	13.715	43716	23	9.360	22.585				
				43573	40	23.064	6.942	43645*	65	17.234	13.485	43717*	51	10.091	22.700				
				43574	9	24.366	6.459	43646	10	19.741	13.620	43718	30	12.112	22.592				
				43575*	60	3.976	7.536	43647	13	20.950	13.316	43719	28	12.157	22.378				
				43576*	44	4.308	7.902	43648	34	22.348	13.114	43720	15	12.785	22.588				
				43577	41	4.664	7.944	43649*	92	24.366	13.222	43721	14	15.258	22.786				
				43578	19	7.030	7.973	43650	35	2.912	14.276	43722	15	15.463	22.880				
				43579	37	7.345	7.061	43651	8	4.030	14.458	43723	37	17.218	22.602				
				43580	12	13.830	7.365	43652	9	4.527	14.461	43724	39	19.188	22.404				
				43581*	54	17.086	7.726	43653	35	6.408	14.064	43725	15	20.924	22.905				
				43582	34	21.384	7.304	43654	41	15.708	14.456	43726	33	23.403	22.714				
				43583	33	22.137	7.468	43655	34	16.452	14.176	43727	10	23.544	22.278				
				43584	40	23.420	7.202	43656	41	19.005	14.456	43728	18	24.254	22.833				
				43585	21	24.938	7.782	43657	17	19.554	14.427	43729	9	25.894	22.434				
				43586	44	25.489	7.581	43658	21	19.626	14.481	43730	41	4.844	23.200				
				43587	32	8.160	8.185	43659	18	24.582	14.776	43731	25	7.503	23.975				
				43588*	110	16.966	8.436	43660	41	4.973	15.046	43732	8	10.248	23.732				
				43589	34	20.512	8.818	43661	39	10.510	15.735	43733	12	12.318	23.615				
				43590	25	22.580	8.576	43662*	120	10.823	15.463	43734	36	14.734	23.016				
				43591	42	25.520	8.936	43663	11	14.100	15.734	43735	35	18.044	23.107				
				43592	10	1.622	9.378	43664	15	15.319	15.430	43736	21	18.916	23.560				
				43593	30	2.506	9.666	43665	14	15.624	15.304	43737	22	20.516	23.242				
				43594	35	4.602	9.384	43666	8	4.344	16.354	43738	16	21.730	23.946				
				43595	8	5.952	9.084	43667*	50	11.802	16.924	43739	16	0.440	24.760				
				43596	33	7.824	9.429	43668*	83	14.614	16.857	43740	8	3.426	24.546				
				43597	27	11.604	9.726	43669	39	9.188	17.024	43741	8	3.520	24.612				

R.A. 16^h 8^m

Plate 706 ; 1916 April 30.

Provisional Constants.

A	B	C
-02564	+00896	+0387

D	E	F
-00939	-02583	-0677

Mag.=16.6-1.05√d

No.	d	x	y
43801*	44	0.666	0.874
43802*	60	0.902	0.012
43803	8	9.298	0.348
43804	10	18.648	0.976
43805	8	20.322	0.724
43806	8	21.240	0.022
43807	9	25.422	0.854
43808	43	0.607	1.926
43809	18	2.583	1.968
43810	17	4.484	1.812
43811	10	5.363	1.773
43812	11	6.230	1.693
43813	37	6.572	1.107
43814	14	6.900	1.747
43815	37	9.024	1.912
43816	9	14.526	1.448
43817	9	16.272	1.208
43818	20	19.759	1.138
43819	10	21.302	1.552
43820	8	24.878	1.309
43821	9	0.550	2.315
43822	8	1.421	2.258
43823	10	1.528	2.425
43824	11	2.562	2.077
43825	8	2.753	2.731
43826	12	5.992	2.953
43827	13	6.946	2.510
43828	10	7.014	2.233
43829*	42	14.034	2.693
43830	8	17.946	2.438
43831	14	19.883	2.642

43832	20	20.140	2.783	43904*	51	5.864	10.870	43976	10	25.386	20.224	44063	8	9.600	1.162	44135	9	1.128	7.303
43833	9	20.208	2.474	43905	11	6.179	10.498	43977	9	1.682	21.190	44064	14	0.603	2.282	44136	8	5.820	7.493
43834	9	22.080	2.489	43906*	63	11.928	10.680	43978*	66	8.206	21.928	44065	8	0.904	2.535	44137	32	6.754	7.230
43835	8	22.490	2.099	43907	10	12.286	10.535	43979	13	8.554	21.890	44066*	80	3.150	2.486	44138	14	7.874	7.582
43836	14	23.336	2.146	43908	27	13.372	10.504	43980	15	9.798	21.088	44067	35	4.577	2.557	44139	34	16.576	7.798
43837	8	23.632	2.400	43909	25	17.569	10.409	43981	10	19.290	21.934	44068	11	9.221	2.309	44140	14	18.354	7.778
43838	76	25.889	2.366	43910	32	17.731	10.324	43982	8	20.161	21.246	44069	14	11.981	2.283	44141	11	19.556	7.215
43839	12	1.938	3.311	43911	8	20.196	10.572	43983	9	21.303	21.807	44070	10	13.817	2.342	44142	9	23.347	7.286
43840	16	6.306	3.451	43912	12	23.058	10.412	43984	13	24.810	21.938	44071	8	14.160	2.478	44143	28	25.338	7.064
43841	10	10.918	3.383	43913	12	25.694	10.670	43985	10	1.348	22.994	44072	24	16.464	2.754	44144	8	3.546	8.673
43842	20	16.802	3.780	43914	10	0.264	11.561	43986	8	1.480	22.559	44073	8	20.920	2.734	44145	8	7.808	8.582
43843	35	21.172	3.355	43915	29	0.344	11.157	43987	8	3.830	22.678	44074	27	23.569	2.862	44146	35	8.163	8.996
43844	14	23.171	3.457	43916	22	3.213	11.338	43988	8	4.656	22.088	44075	20	0.446	3.599	44147	8	16.285	8.384
43845	8	23.768	3.289	43917	8	4.504	11.464	43989	9	5.580	22.138	44076	8	1.494	3.455	44148	10	19.138	8.724
43846	8	24.216	3.319	43918	10	6.818	11.788	43990	9	7.902	22.542	44077	8	2.886	3.319	44149	13	19.168	8.516
43847	11	0.628	4.992	43919*	40	13.733	11.808	43991	20	23.672	22.519	44078	8	3.496	3.641	44150	11	20.276	8.788
43848	15	13.664	4.540	43920	21	15.218	11.048	43992	8	2.198	23.102	44079	29	3.806	3.570	44151	8	21.057	8.460
43849	10	15.042	4.442	43921	8	15.590	11.888	43993	8	4.782	23.348	44080	35	5.356	3.010	44152	35	22.702	8.069
43850	8	20.977	4.428	43922	12	19.206	11.034	43994	15	6.490	23.223	44081	34	6.498	3.564	44153	13	23.942	8.226
43851	8	22.966	4.593	43923	10	22.332	11.300	43995	9	6.822	23.097	44082	10	7.442	3.994	44154	8	24.746	8.698
43852	14	23.126	4.312	43924	8	24.893	11.472	43996	15	7.786	23.258	44083*	48	7.590	3.744	44155	8	2.508	9.606
43853	8	24.272	4.838	43925	8	0.423	12.772	43997	8	13.980	23.739	44084	25	8.488	3.103	44156	8	4.914	9.730
43854	12	12.050	5.062	43926	25	1.530	12.254	43998*	25	15.370	23.310	44085	20	12.116	3.851	44157	32	5.499	9.340
43855	26	12.280	5.761	43927	30	2.115	12.792	43999	21	15.844	23.988	44086	31	12.274	3.147	44158	30	6.382	9.309
43856	11	13.258	5.504	43928	10	5.036	12.793	44000	8	3.778	24.369	44087	9	14.351	3.742	44159	25	6.636	9.892
43857	12	13.886	5.342	43929*	80	8.007	12.218	44001	9	4.388	24.076	44088	12	14.423	3.250	44160	8	7.146	9.680
43858	22	15.978	5.040	43930	8	19.510	12.934	44002	20	4.535	24.730	44089	9	16.182	3.285	44161	9	7.980	9.862
43859	21	19.126	5.326	43931	9	21.512	12.660	44003	10	5.550	24.596	44090	24	16.915	3.316	44162	9	10.605	9.109
43860	12	20.527	5.537	43932	34	24.242	12.796	44004	9	7.206	24.898	44091	27	16.956	3.225	44163	8	11.022	9.444
43861	9	25.478	5.799	43933	14	0.140	13.416	44005	11	8.187	24.774	44092	8	17.226	3.447	44164	8	12.544	9.375
43862	10	6.994	6.444	43934	10	0.388	13.063	44006	8	2.770	25.778	44093	29	17.692	3.988	44165	8	16.360	9.621
43863	14	7.056	6.218	43935*	110	2.149	13.493	44007	37	4.334	25.806	44094	13	18.885	3.454	44166	13	22.906	9.425
43864	8	10.965	6.652	43936	9	10.494	13.474	44008	9	12.502	25.500	44095	21	22.754	3.954	44167	15	0.384	10.557
43865	11	12.237	6.678	43937	19	15.514	13.593	44009	24	14.050	25.128	44096	13	0.406	4.453	44168	12	3.021	10.794
43866*	46	13.206	6.432	43938	9	15.696	13.080	44010	8	15.446	25.236	44097	8	1.557	4.975	44169	9	4.218	10.876
43867	11	17.244	6.304	43939	28	16.516	13.807	44011	8	17.201	25.050	44098	12	3.568	4.983	44170	8	8.116	10.514
43868	8	17.498	6.722	43940	8	20.436	13.696					44099	8	8.105	4.139	44171	29	9.724	10.128
43869	25	22.706	6.365	43941	37	21.786	13.504					44100	11	8.416	4.836	44172	8	9.750	10.993
43870	8	24.199	6.412	43942	12	25.898	13.682					44101	8	10.743	4.265	44173	8	10.446	10.515
43871	9	25.214	6.774	43943	9	12.235	14.632					44102	40	12.914	4.018	44174	22	11.766	10.536
43872	8	25.584	6.442	43944	51	16.352	14.213					44103	8	13.724	4.396	44175	8	13.076	10.713
43873	19	0.756	7.233	43945	8	17.183	14.402					44104	8	16.276	4.796	44176	11	13.420	10.786
43874	21	1.116	7.580	43946	8	18.863	14.767					44105	34	16.395	4.806	44177	11	14.226	10.270
43875	23	3.188	7.837	43947	8	20.602	14.312					44106	22	18.855	4.827	44178	12	20.050	10.253
43876	8	9.582	7.042	43948	25	22.234	14.988					44107	9	19.308	4.104	44179	31	21.222	10.677
43877	15	10.141	7.462	43949	8	23.820	14.772					44108*	60	20.564	4.582	44180	16	24.829	10.575
43878	8	13.558	7.848	43950	8	2.400	15.043					44109	15	22.211	4.900	44181	8	2.225	11.607
43879	18	19.299	7.848	43951	9	6.018	15.068					44110	9	2.770	5.924	44182	8	9.308	11.048
43880	8	22.148	7.644	43952*	95	15.298	15.736					44111	8	4.470	5.258	44183	8	10.706	11.485
43881	9	23.824	7.165	43953	16	17.837	15.042					44112	10	5.125	5.175	44184	12	11.827	11.999
43882	10	0.300	8.876	43954	9	22.900	15.994					44113	10	7.356	5.854	44185	8	11.967	11.377
43883	8	2.643	8.042	43955	8	6.598	16.994					44114	10	9.452	5.447	44186	29	22.221	11.036
43884	8	4.212	8.315	43956	11	16.628	16.770					44115	27	9.691	5.407	44187	38	1.581	12.929
43885	14	4.466	8.382	43957*	58	19.942	16.505					44116	8	10.446	5.538	44188	10	7.085	12.322
43886	10	6.514	8.206	43958*	39	20.813	16.674					44117	11	11.856	5.740	44189	28	8.917	12.266
43887	8	10.621	8.272	43959	9	21.883	16.720					44118	24	11.936	5.288	44190	22	10.532	12.254
43888	12	10.712	8.036	43960	32	23.920	16.628					44119	8	18.848	5.100	44191	13	12.364	12.349
43889	12	16.585	8.135	43961	8	5.786	17.314					44120	8	22.114	5.014	44192	10	13.346	12.975
43890	11	21.008	8.290	43962	8	15.016	17.250					44121	29	0.001	6.507	44193	26	15.764	12.165
43891	14	21.472	8.922	43963	8	5.046	18.549					44122	10	2.512	6.901	44194	12	3.244	13.806
43892	8	0.091	9.658	43964	26	12.739	18.511					44123	8	2.884	6.566	44195	21	6.036	13.974
43893	8	3.216	9.410	43965	9	15.668	18.448					44124	36	4.179	6.226	44196	8	16.149	13.492
43894	21	3.242	9.191	43966	9	19.148	18.283					44125	23	6.046	6.372	44197	36	20.614	13.693
43895	8	3.270	9.932	43967	8	22.255	18.937					44126	31	10.064	6.785	44198	8	21.324	13.554
43896	26	4.440	9.300	43968	8	0.653	19.249					44127	8	10.324	6.800	44199	8	22.066	13.614
43897*	45	6.653	9.509	43969	13	7.583	19.192					44128*	52	10.444	6.122	44200	8	5.503	14.877
43898	8	9.898	9.758	43970	9	9.844	19.688					44129	9	11.891	6.370	4420			

44207	8	24.550	15.518	44279	8	18.884	24.633	44344	14	15.506	8.198	R.A. 16 ^h 32 ^m Plate 701 ; 1916 April 28. Provisional Constants. A B C -0.2536 +.00371 +.2293 D E F -0.00390 -0.02587 -0.1734 Mag.=17.7-1.05√d	44506*	120	2.495	7.159
44208	9	0.264	16.133	44280	8	5.322	25.749	44345	8	17.478	8.975		44507	12	0.788	8.376
44209	43	1.286	16.764	44281	12	8.433	25.382	44346	11	21.334	8.954		44508	25	9.054	8.004
44210	8	2.080	16.074	44282	8	10.340	25.344	44347	10	1.080	9.392		44509*	49	15.708	8.906
44211	8	3.967	16.784	44283	32	12.947	25.701	44348	12	4.192	9.670		44510	8	1.296	9.634
44212	8	5.646	16.426					44349	8	4.394	9.840		44511	36	6.749	9.195
44213	8	11.608	16.294					44350*	104	10.003	9.520		44512	35	9.370	9.688
44214*	44	12.660	16.324					44351	25	12.044	9.566		44513	26	16.598	9.412
44215	14	5.886	17.748					44352	8	13.078	9.672		44514	28	17.149	9.606
44216*	64	8.814	17.745					44353*	33	14.236	9.749		44515	39	22.434	9.452
44217	45	8.836	17.367					44354*	37	20.126	9.758	44516	41	25.694	9.632	
44218	8	9.445	17.066					44355	8	23.497	9.320	44517	39	1.272	10.356	
44219	10	10.656	17.925					44356	11	3.014	10.521	44518	9	8.842	10.258	
44220	31	11.205	17.658					44357	9	4.865	10.732	44519	11	9.106	10.621	
44221	15	15.478	17.330					44358	19	8.411	10.775	44520*	120	22.714	10.856	
44222	8	19.721	17.788					44359	16	15.640	10.996	44521	9	24.894	10.436	
44223	8	21.328	17.854					44360	15	23.466	10.040	44522	10	0.890	11.650	
44224	8	22.098	17.695					44361	9	25.043	10.776	44523	37	2.854	11.083	
44225	8	22.428	17.563					44362	19	0.418	11.014	44524	11	4.581	11.502	
44226	8	24.459	17.200					44363	16	11.300	11.981	44525	8	5.600	11.016	
44227	11	6.274	18.428					44364	10	12.008	11.462	44526	8	8.476	11.088	
44228	8	7.958	18.534					44365	10	18.606	11.280	44527	17	13.968	11.227	
44229	41	9.612	18.650					44366	12	22.376	11.828	44528	42	23.111	11.768	
44230*	51	16.135	18.536					44367	8	23.076	11.335	44529	40	0.194	12.150	
44231	34	16.316	18.402					44368	8	23.699	11.786	44530	8	0.238	12.901	
44232	8	16.563	18.620					44369	8	10.591	12.572	44531	39	0.838	12.980	
44233	12	3.956	19.108					44370*	56	12.512	12.504	44532	10	1.516	12.100	
44234	25	4.569	19.057					44371	8	13.583	12.160	44533	33	11.186	12.756	
44235	12	5.494	19.116					44372	23	18.090	12.136	44534*	140	14.830	12.676	
44236	12	6.086	19.070					44373	12	23.016	12.662	44535	21	15.130	12.386	
44237*	100	6.306	19.354					44374	9	4.230	13.947	44536	21	15.162	12.272	
44238*	38	7.027	19.884					44375	28	6.190	13.088	44537	41	17.290	12.365	
44239	8	9.368	19.756					44376*	40	14.634	13.650	44538	37	17.550	12.012	
44240	28	10.663	19.750					44377	28	19.816	13.039	44539	33	24.575	12.324	
44241	8	21.850	19.270					44378	12	5.842	14.675	44540	44	25.220	12.793	
44242	31	25.076	19.478					44379	8	2.690	15.602	44541*	80	4.810	13.600	
44243	8	2.776	20.348					44380*	190	5.192	15.036	44542	9	16.945	13.448	
44244	23	7.524	20.852					44381	25	6.744	15.365	44543	9	2.246	14.526	
44245	8	7.580	20.933					44382	11	16.525	15.836	44544	12	7.480	14.558	
44246	8	10.544	20.384					44383	14	20.391	15.606	44545*	80	12.312	14.426	
44247	22	14.886	20.458					44384	19	25.016	15.409	44546	10	22.478	14.996	
44248	15	17.080	20.446					44385	15	16.352	16.944	44547	9	24.938	14.535	
44249	8	18.600	20.333					44386	23	24.425	16.680	44548	15	25.924	14.476	
44250	8	19.046	20.860					44387	8	2.740	17.146	44549	42	2.856	15.716	
44251	8	19.617	20.396					44388	8	4.956	17.800	44550	10	7.415	15.618	
44252	8	20.199	20.645					44389*	77	12.652	17.600	44551	8	13.244	15.268	
44253	29	20.465	20.308					44390	9	11.569	18.746	44552	8	17.116	15.425	
44254	8	6.120	21.318					44391	11	21.185	18.832	44553	48	20.439	15.098	
44255	8	8.350	21.143					44392	8	21.326	18.246	44554	39	22.596	15.632	
44256	19	10.448	21.688					44393	10	22.244	18.497	44555	9	22.484	15.210	
44257	31	1.082	22.656					44394	15	3.387	19.417	44556	10	23.611	15.083	
44258	15	2.214	22.068					44395	9	7.408	19.500	44557	8	24.485	15.104	
44259	8	8.936	22.085					44396	25	23.200	19.034	44558	43	2.270	16.992	
44260	8	12.804	22.408					44397	10	23.068	21.306	44559	8	4.464	16.160	
44261	8	13.794	22.768					44398	8	2.098	22.667	44560	23	7.156	16.404	
44262	18	14.756	22.530					44399	21	2.920	22.028	44561*	50	8.176	16.606	
44263	33	21.260	22.750					44400*	35	4.275	22.943	44562	11	14.144	16.133	
44264	8	23.744	22.713					44401	12	2.128	23.530	44563	16	14.796	16.914	
44265	37	24.575	22.087					44402	12	7.351	23.484	44564*	60	16.308	16.246	
44266	8	5.056	23.714					44403	8	25.770	23.786	44565	35	18.183	16.818	
44267	20	5.954	23.678					44404	8	5.684	24.134	44566	18	18.854	16.004	
44268	30	7.314	23.304					44405	17	9.665	24.941	44567	8	22.445	16.114	
44269	25	9.520	23.584					44406	8	12.200	25.886	44568	15	2.812	17.977	
44270	16	12.028	23.966									44569*	80	6.548	17.935	
44271	8	19.412	23.794									44570	46	25.054	17.223	
44272	12	20.038	23.534									44571	25	0.104	18.821	
44273	10	20.623	23.291									44572	45	1.063	19.354	
44274	8	21.080	23.166									44573	43	12.406	19.830	
44275	20	23.761	23.580									44574*	86	15.064	19.761	
44276	50	25.918	23.021									44575	36	0.943	21.626	
44277	10	7.526	24.272									44576	37	5.692	21.435	
4427																

44578*	51	24.426	21.182	44632	14	9.398	5.487	44704	20	17.420	15.028	44776	8	10.702	25.390	44834	8	7.054	4.298
44579	33	13.436	22.134	44633*	56	15.100	5.663	44705	8	20.215	15.870	44777	10	11.782	25.424	44835	16	8.121	4.363
44580	8	21.638	22.907	44634	9	15.722	5.740	44706	8	21.644	15.674	44778	8	11.799	25.044	44836	8	19.244	4.041
44581	9	22.182	22.047	44635	20	20.004	5.875	44707	13	22.912	15.468	44779	8	11.830	25.044	44837	30	20.326	4.764
44582	21	22.484	22.218	44636	20	21.740	5.433	44708	13	25.465	15.716	44780	8	12.388	25.337	44838	9	21.848	4.878
44583	15	3.724	23.489	44637	14	6.400	6.770	44709	10	8.014	16.445	44781	11	12.418	25.256	44839	9	22.446	4.786
44584	17	11.936	23.145	44638	20	18.446	6.598	44710*	57	8.193	16.737	44782	13	13.412	25.308	44840	8	23.657	4.062
44585	39	12.787	23.188	44639	8	0.054	7.294	44711	10	10.864	16.250	44783	8	13.812	25.628	44841	11	24.622	4.134
44586	32	15.870	23.476	44640	10	1.016	7.534	44712*	45	12.044	16.134	44784	10	16.801	25.188	44842	45	25.641	4.527
44587	42	21.046	23.596	44641*	113	1.220	7.394	44713	10	13.294	16.528	44785	10	17.410	25.712	44843	12	15.034	5.782
44588	8	21.420	23.504	44642	8	2.459	7.471	44714	30	13.665	16.672	44786	12	20.318	25.780	44844	30	15.816	5.320
44589	9	3.663	24.088	44643	12	4.093	7.614	44715	8	14.100	16.911	44787	12	20.342	25.638	44845	13	19.641	5.958
44590*	62	9.397	24.994	44644	9	9.837	7.476	44716	31	15.596	16.186	44788	54	20.527	25.425	44846	26	22.126	5.504
44591	42	14.060	24.386	44645	26	13.636	7.418	44717	23	17.880	16.552	44789	8	20.731	25.278	44847	22	24.202	5.309
44592	27	21.894	24.441	44646*	39	15.268	7.128	44718	10	18.214	16.185	44790*	44	22.482	25.174	44848	8	5.740	6.040
44593	10	5.876	25.766	44647	8	25.604	7.359	44719	8	23.310	16.331					44849*	36	7.960	6.664
44594	41	6.637	25.603	44648	8	0.554	8.239	44720	31	2.924	17.436					44850	31	14.056	6.995
				44649	8	4.144	8.359	44721	20	6.124	17.622					44851	8	20.204	6.780
				44650	24	9.693	8.960	44722	14	6.670	17.302					44852	25	21.528	6.799
				44651	8	16.534	8.392	44723	18	8.134	17.025					44853	36	23.576	6.366
				44652	8	16.767	8.385	44724	8	15.348	17.777					44854	9	3.247	7.410
				44653	18	0.199	9.703	44725	10	10.034	18.633					44855	9	7.625	7.232
				44654	16	3.458	9.842	44726	20	10.606	18.718					44856	31	16.100	7.110
				44655	8	5.990	9.043	44727	31	12.860	18.505					44857	16	16.392	7.060
				44656	8	11.046	9.056	44728	11	13.358	18.028					44858	21	17.816	7.145
				44657	22	13.994	9.827	44729	8	16.362	18.668					44859	12	18.504	7.222
				44658	11	18.865	9.370	44730	11	16.928	18.476					44860	8	19.034	7.318
				44659	32	19.130	9.606	44731	8	21.221	18.665					44861	8	21.382	7.788
				44660	8	21.934	9.739	44732	14	23.494	18.836					44862	30	22.234	7.088
				44661	8	2.672	10.658	44733	8	5.587	19.956					44863	32	23.322	7.149
				44662	10	18.098	10.032	44734	11	7.906	19.805					44864	23	23.436	7.455
				44663	103	0.486	11.101	44735*	43	15.336	19.642					44865	12	8.939	8.036
				44664	8	3.578	11.866	44736	8	8.834	20.276					44866	8	14.916	8.164
				44665	9	4.115	11.920	44737	10	8.934	20.885					44867	20	18.824	8.388
				44666	8	5.396	11.803	44738	8	20.817	20.420					44868	39	20.302	8.384
				44667*	34	21.748	11.698	44739	8	23.220	20.485					44869*	61	22.222	8.552
				44668*	38	25.050	11.986	44740	14	23.850	20.277					44870	30	22.292	8.350
				44669	21	0.908	12.012	44741	9	25.015	20.120					44871	16	23.632	8.626
				44670	13	2.379	12.544	44742	8	0.663	21.474					44872	9	25.589	8.176
				44671*	49	7.754	12.452	44743*	44	2.348	21.403					44873*	43	6.218	9.846
				44672	8	12.274	12.506	44744	19	6.024	21.612					44874	21	14.674	9.296
				44673	12	21.619	12.253	44745	9	6.716	21.429					44875	32	14.846	9.091
				44674	24	3.031	13.004	44746	12	9.636	21.946					44876	8	15.041	9.548
				44675	25	5.412	13.480	44747	8	10.667	21.190					44877	30	16.889	9.484
				44676	12	5.580	13.904	44748	19	10.779	21.984					44878	8	18.116	9.424
				44677	17	8.768	13.550	44749	13	21.433	21.354					44879*	41	19.052	9.566
				44678	8	8.906	13.916	44750	8	21.817	21.146					44880*	45	22.135	9.857
				44679	8	14.994	13.834	44751	20	22.105	21.954					44881	41	25.283	9.084
				44680	18	16.246	13.596	44752*	46	23.208	21.314					44882	8	25.610	9.786
				44681	15	16.907	13.782	44753	8	0.120	22.301					44883	12	25.874	9.851
				44682	8	18.154	13.075	44754	10	0.422	22.469					44884	12	6.312	10.783
				44683	10	20.910	13.523	44755	10	7.816	22.475					44885*	58	13.316	10.326
				44684	8	21.112	13.993	44756	11	8.393	22.552					44886	32	14.243	10.984
				44685	8	23.913	13.347	44757	15	10.256	22.613					44887	8	4.698	11.052
				44686*	48	24.050	13.527	44758	13	25.630	22.946					44888	10	9.896	11.968
				44687	8	2.774	14.752	44759	13	9.816	23.508					44889	25	13.616	11.934
				44688	9	3.756	14.681	44760*	57	12.122	23.714					44890	8	14.364	11.500
				44689	19	7.674	14.202	44761	10	16.662	23.496					44891	12	16.088	11.448
				44690	88	12.055	14.516	44762	8	17.072	23.710					44892	35	17.006	11.786
				44691	11	14.024	14.217	44763	8	21.065	23.565					44893	28	18.678	11.674
				44692	8	0.316	15.250	44764	8	22.659	23.772					44894	9	18.776	11.600
				44693	8	0.327	15.460	44765	21	10.828	24.122					44895	30	19.370	11.036
				44694	18	0.446	15.882	44766	10	13.616	24.909					44896	8	20.816	11.656
				44695	8	1.450	15.318	44767	8	16.946	24.166					44897	8	21.289	11.565
				44696	9	2.325	15.327	44768	14	18.049	24.558					44898	28	21.480	11.200
				44697	8	2.326	15.401	44769	8	19.125	24.096					44899	12	21.596	11.745
				44698*	41	5.956	15.767	44770	15	19.294	24.071					44900	20	22.495	11.294
				44699	12	9.718	15.764	44771	8	20.706	24.928					44901	8	24.882	11.220
				44700	21	9.774	15.716	44772	10	21.112	24.274					44902	8	25.684	11.378
				44701	14	11.794	15.365	44773	8	21.808	24.358					44903	8	0.127	12.017
				44702	17	11.974	15.448	44774	21	6.570	25.124					44904*	39	2.714	12.038
				44703	12	11.998	15.026	44775	8	9.333	25.484					44905	30	15.142	12.958

R.A. 16^h 48^m

Plate 715; 1916 May 1.

Provisional Constants.

A	B	C
-0.2572	+0.0076	+2.474

D	E	F
-0.0088	-0.2588	-1.234

Mag. = 16.1 - 1.05 \sqrt{d}

No.	d	x	y
44801*	36	4.398	0.976
44802	25	13.840	0.846
44803	8	15.548	0.780

44906	37	15.966	12.786	44978	10	19.703	19.344	45050	8	9.578	24.166	45119	11	19.032	2.191	45191	16	13.310	10.618
44907*	62	20.644	12.233	44979	21	20.272	19.695	45051	12	9.910	24.654	45120*	46	19.730	2.104	45192	12	15.332	10.736
44908	8	21.305	12.327	44980	8	20.680	19.846	45052	36	12.290	24.441	45121*	43	20.233	2.673	45193	12	25.296	10.563
44909*	41	23.626	12.860	44981	9	22.890	19.842	45053	24	13.582	24.044	45122	9	22.488	2.522	45194	17	0.202	11.008
44910	11	23.643	12.894	44982	8	0.928	20.550	45054	24	14.370	24.486	45123	14	23.145	2.381	45195	8	3.391	11.038
44911*	48	1.722	13.586	44983	16	1.556	20.337	45055	24	16.062	24.279	45124	21	23.744	2.480	45196*	45	4.082	11.008
44912	26	7.826	13.590	44984	11	2.723	20.174	45056	8	16.454	24.917	45125	13	0.272	3.159	45197	14	4.330	11.608
44913	9	14.658	13.433	44985	8	3.262	20.241	45057	10	19.250	24.778	45126	13	2.210	3.816	45198	11	4.751	11.387
44914	30	14.678	13.265	44986	27	3.832	20.903	45058	8	21.112	24.655	45127	25	3.890	3.366	45199	9	6.654	11.436
44915	11	16.160	13.792	44987	18	6.138	20.066	45059	11	23.882	24.218	45128	31	19.169	3.407	45200	37	6.776	11.888
44916	8	18.713	13.271	44988	20	7.254	20.836	45060	8	23.979	24.226	45129	20	20.775	3.050	45201	10	8.174	11.370
44917	33	18.991	13.570	44989	8	8.726	20.182	45061	44	0.216	25.244	45130	13	21.849	3.337	45202	8	9.787	11.415
44918	8	19.248	13.344	44990	18	9.220	20.316	45062	13	4.537	25.806	45131	13	22.580	3.282	45203	27	12.614	11.223
44919	8	23.265	13.338	44991	25	12.262	20.326	45063	8	5.782	25.803	45132	10	25.322	3.573	45204	8	13.398	11.411
44920	8	7.814	14.824	44992*	67	16.422	20.984	45064	11	6.616	25.193	45133	10	0.044	4.502	45205*	80	23.979	11.838
44921	27	8.342	14.719	44993	20	20.600	20.970	45065	12	8.902	25.735	45134	13	1.808	4.994	45206	19	24.958	11.823
44922	12	12.079	14.305	44994	16	22.388	20.148	45066	9	11.248	25.383	45135*	46	3.232	4.193	45207	19	25.060	11.632
44923	30	16.768	14.702	44995	28	23.708	20.450	45067	18	12.987	25.410	45136	33	4.266	4.040	45208	8	25.430	11.797
44924	8	17.467	14.562	44996	23	24.260	20.582	45068	45	13.065	25.970	45137	26	4.700	4.499	45209*	44	1.360	12.554
44925	23	20.564	14.896	44997	47	0.916	21.376	45069	23	14.414	25.750	45138	22	6.396	4.890	45210	9	4.196	12.993
44926	8	20.594	14.029	44998	28	7.750	21.310	45070	20	14.542	25.591	45139	30	9.782	4.618	45211	8	6.354	12.710
44927	8	21.908	14.876	44999	8	7.842	21.416	45071	28	14.948	25.877	45140	10	11.706	4.298	45212	10	8.438	12.032
44928	8	24.547	14.618	45000	10	10.514	21.584	45072	10	15.230	25.152	45141	20	12.500	4.328	45213*	74	8.509	12.918
44929	12	24.864	14.993	45001	32	12.100	21.140	45073	33	16.716	25.262	45142	35	13.752	4.122	45214	18	10.730	12.132
44930	35	25.590	14.729	45002*	50	13.214	21.205	45074	8	16.942	25.207	45143	9	13.840	4.214	45215	18	15.862	12.028
44931	15	0.596	15.534	45003	11	13.308	21.949	45075	10	19.066	25.426	45144	8	14.251	4.050	45216*	73	20.206	12.078
44932	9	1.980	15.690	45004	8	13.476	21.345	45076	12	22.051	25.427	45145*	71	20.361	4.482	45217*	104	7.114	13.280
44933	12	3.148	15.766	45005	10	14.757	21.087	45077	10	22.070	25.500	45146	25	24.142	4.350	45218	12	7.728	13.258
44934	10	6.586	15.555	45006	12	15.674	21.964	45078	29	24.992	25.403	45147	36	25.086	4.232	45219	14	8.673	13.150
44935	23	7.193	15.382	45007	9	16.520	21.602	45079	42	25.000	25.118	45148	9	12.756	5.060	45220	12	10.695	13.092
44936	36	9.338	15.158	45008	16	18.664	21.840					45149	23	15.730	5.850	45221	9	10.956	13.634
44937	38	15.837	15.834	45009	17	19.912	21.604					45150	32	0.959	6.852	45222	14	20.491	13.491
44938	31	22.216	15.416	45010	12	21.436	21.590					45151	39	1.200	6.064	45223	17	20.578	13.563
44939	20	23.639	15.966	45011	15	24.100	21.131					45152	16	6.664	6.440	45224	14	20.775	13.220
44940	8	5.108	16.670	45012	12	3.355	22.999					45153	16	9.085	6.008	45225	27	24.682	13.343
44941	22	10.369	16.246	45013	9	4.482	22.514					45154	25	9.099	6.028	45226	19	2.635	14.668
44942	8	12.420	16.766	45014*	37	4.519	22.845					45155	28	11.071	6.764	45227	36	3.354	14.392
44943	13	18.716	16.551	45015	10	4.691	22.158					45156	17	12.582	6.053	45228*	42	3.798	14.706
44944	8	18.922	16.318	45016	22	8.310	22.388					45157	10	13.966	6.299	45229	8	7.773	14.594
44945	21	20.288	16.980	45017	8	8.549	22.740					45158	22	19.092	6.897	45230	35	9.084	14.046
44946	8	21.470	16.468	45018	22	10.550	22.490					45159	27	23.263	6.858	45231	13	17.474	14.054
44947	15	24.036	16.424	45019	8	10.952	22.674					45160	26	1.078	7.155	45232	9	18.350	14.772
44948	10	24.506	16.778	45020	13	11.816	22.398					45161	25	11.192	7.152	45233	24	20.280	14.376
44949	30	8.721	17.914	45021	10	11.885	22.604					45162	26	19.036	7.306	45234	30	20.454	14.598
44950	36	10.024	17.872	45022	10	12.046	22.120					45163	27	19.550	7.344	45235	8	22.422	14.447
44951	39	13.973	17.432	45023	34	13.050	22.076					45164	9	25.307	7.727	45236	32	22.947	14.640
44952	8	14.443	17.104	45024	8	14.198	22.202					45165	13	1.294	8.321	45237	11	24.490	14.472
44953	17	17.200	17.508	45025	21	14.899	22.936					45166*	43	2.950	8.752	45238	24	25.538	14.478
44954	8	17.456	17.036	45026	8	15.457	22.085					45167	17	4.054	8.488	45239	20	1.428	15.662
44955	17	19.402	17.959	45027	8	20.130	22.606					45168	27	11.144	8.493	45240	24	18.359	15.155
44956	31	20.586	17.950	45028	11	21.573	22.820					45169	18	11.388	8.903	45241	13	19.560	15.782
44957	8	21.577	17.648	45029	18	24.345	22.729					45170	26	19.828	8.289	45242	8	20.305	15.149
44958	20	22.716	17.792	45030	8	5.763	23.478					45171	27	21.790	8.170	45243	22	24.626	15.508
44959	17	1.194	18.902	45031	11	5.944	23.206					45172	20	22.540	8.051	45244	13	1.830	16.111
44960	8	5.134	18.604	45032	24	6.556	23.072					45173	19	25.222	8.818	45245	11	4.891	16.062
44961	13	8.750	18.213	45033	8	6.600	23.139					45174	16	3.559	9.509	45246	30	6.428	16.120
44962	15	13.175	18.801	45034	8	6.844	23.788					45175	11	5.436	9.833	45247	8	10.194	16.682
44963	8	13.480	18.352	45035	9	7.798	23.226					45176	10	6.241	9.164	45248	8	10.398	16.028
44964	45	13.638	18.673	45036	18	8.922	23.910					45177	27	6.644	9.232	45249	11	10.692	16.388
44965	9	13.761	18.085	45037	8	12.954	23.567					45178	29	8.361	9.536	45250	28	14.599	16.250
44966	10	20.176	18.248	45038	10	13.416	23.684					45179	17	19.395	9.784	45251	29	18.290	16.318
44967	10	21.157	18.744	45039	28	15.714	23.710					45180	13	19.596	9.078	45252	29	18.635	16.848
44968	8	21.686	18.410	45040	8	16.489	23.814					45181	11	19.674	9.641	45253	11	19.698	16.168
44969	23	22.452	18.963	45041	14	17.740	23.001					45182	10	20.579	9.851	45254*	37	20.875	16.045
44970	8	4.204	19.236	45042	10	18.380	23.636					45183	18	20.746	9.096	45255	20	22.106	16.252
44971	30	6.858	19.350	45043	15	22.868	23.436					45184	34	21.118	9.598	45256	21	22.428	16.189
44972	8	7.326	19.286	45044	8	24.969	23.436												

45263	19	5.090	17.788	45335	23	15.149	22.582	45407	37	15.545	0.450	45479	40	2.748	4.728	45551	8	22.900	8.042
45264	23	5.462	17.531	45336	32	16.251	22.748	45408	29	17.399	0.794	45480	12	2.981	4.067	45552	17	2.918	9.312
45265	18	9.609	17.144	45337	26	16.617	22.650	45409	8	17.891	0.064	45481	9	4.757	4.572	45553	21	4.015	9.650
45266	19	20.766	17.391	45338	22	16.678	22.620	45410	8	18.536	0.286	45482*	37	6.693	4.134	45554	15	4.345	9.652
45267	29	21.052	17.688	45339	8	17.906	22.754	45411	8	19.853	0.712	45483	8	8.088	4.027	45555	32	5.230	9.154
45268	11	22.532	17.229	45340	35	18.728	22.154	45412	40	20.560	0.226	45484	19	9.526	4.476	45556	8	12.093	9.700
45269	34	24.794	17.964	45341	9	21.286	22.208	45413	33	21.034	0.070	45485	13	11.386	4.354	45557	9	12.226	9.129
45270	43	25.303	17.888	45342	22	25.891	22.814	45414	13	23.289	0.143	45486	9	11.746	4.808	45558	9	14.760	9.608
45271	12	25.702	17.927	45343	16	0.782	23.142	45415	26	23.546	0.065	45487	41	13.776	4.302	45559	32	15.854	9.325
45272	19	0.289	18.678	45344	25	11.255	23.938	45416	31	24.514	0.434	45488	22	14.724	4.022	45560	8	16.344	9.324
45273	22	5.637	18.614	45345	26	11.515	23.342	45417	27	25.298	0.160	45489	8	14.946	4.596	45561	8	17.366	9.218
45274	13	8.088	18.034	45346	13	11.844	23.081	45418	35	25.850	0.884	45490	14	19.274	4.583	45562	8	18.324	9.457
45275	36	8.324	18.077	45347	29	13.502	23.382	45419	12	1.956	1.502	45491	8	19.510	4.946	45563	8	18.972	9.874
45276*	51	8.382	18.452	45348	10	18.374	23.969	45420	10	5.090	1.374	45492	8	20.011	4.674	45564	31	21.296	9.330
45277	8	15.083	18.283	45349	14	19.012	23.048	45421	10	6.344	1.670	45493	20	21.447	4.092	45565	10	22.854	9.088
45278	8	15.408	18.540	45350	8	20.249	23.122	45422	8	9.833	1.446	45494	25	21.784	4.844	45566	38	23.600	9.535
45279	31	15.938	18.330	45351	25	21.962	23.643	45423	11	11.160	1.050	45495	15	25.334	4.080	45567	9	24.751	9.609
45280	16	17.406	18.248	45352	29	23.615	23.009	45424	8	17.134	1.412	45496	79	25.576	4.899	45568*	41	2.980	10.344
45281	11	17.625	18.658	45353	8	23.718	23.136	45425	8	17.866	1.244	45497	8	1.198	5.926	45569	8	4.825	10.502
45282*	46	19.888	18.131	45354	26	25.194	23.657	45426	25	18.678	1.352	45498	8	9.691	5.705	45570	8	8.984	10.510
45283	28	20.194	18.819	45355	8	1.126	24.698	45427	17	20.712	1.697	45499*	77	10.816	5.976	45571	23	9.071	10.099
45284	26	22.508	18.160	45356*	44	2.939	24.788	45428	22	21.574	1.372	45500	23	11.740	5.140	45572	40	10.556	10.402
45285	42	22.675	18.475	45357*	39	8.702	24.084	45429	8	22.960	1.258	45501	26	12.252	5.227	45573	33	11.480	10.500
45286	10	23.378	18.020	45358	8	11.532	24.478	45430	34	23.156	1.717	45502	17	19.024	5.395	45574	40	13.564	10.614
45287	8	25.736	18.540	45359*	38	13.534	24.569	45431	24	23.186	1.266	45503	50	22.320	5.434	45575	11	13.996	10.296
45288	8	0.743	19.547	45360	31	13.708	24.907	45432	10	23.394	1.602	45504	9	23.976	5.604	45576	8	14.398	10.822
45289	19	5.206	19.343	45361	14	15.351	24.380	45433	29	25.359	1.769	45505*	100	8.504	6.417	45577	19	16.654	10.694
45290*	51	6.201	19.434	45362	24	18.754	24.681	45434	62	25.414	1.682	45506	9	8.874	6.418	45578	22	17.076	10.016
45291	17	9.623	19.008	45363	17	19.030	24.680	45435	14	0.796	2.890	45507	37	9.250	6.514	45579	29	17.380	10.275
45292	8	10.336	19.712	45364	34	19.160	24.910	45436	21	1.397	2.985	45508	8	12.458	6.225	45580	18	17.456	10.710
45293	26	11.698	19.348	45365	14	19.551	24.250	45437	13	3.196	2.805	45509	8	12.716	6.499	45581*	50	20.643	10.941
45294	10	12.212	19.932	45366	8	20.853	24.119	45438	8	4.841	2.821	45510	40	13.021	6.873	45582	9	21.173	10.354
45295	15	14.469	19.218	45367	9	20.322	24.298	45439	10	4.900	2.476	45511	35	13.194	6.146	45583	8	23.027	10.306
45296	21	15.965	19.486	45368	24	20.600	24.367	45440	24	5.870	2.313	45512	31	15.738	6.467	45584	29	23.594	10.530
45297	39	17.130	19.517	45369	30	21.632	24.366	45441	8	9.956	2.331	45513	30	16.285	6.584	45585	9	24.036	10.880
45298	22	17.198	19.611	45370	14	25.454	24.298	45442	21	10.210	2.905	45514	15	17.945	6.578	45586	29	24.328	10.568
45299	24	17.524	19.873	45371	28	2.167	25.830	45443	29	10.366	2.344	45515*	70	20.298	6.450	45587	8	1.912	11.285
45300	12	18.013	19.358	45372	31	2.938	25.073	45444	11	12.536	2.876	45516*	61	20.900	6.326	45588	11	4.717	11.746
45301	31	23.102	19.540	45373	30	9.816	25.844	45445	27	12.672	2.480	45517	8	21.241	6.792	45589	18	7.818	11.462
45302	27	1.572	20.143	45374	21	13.597	25.280	45446	43	17.440	2.781	45518	27	24.138	6.618	45590*	42	7.834	11.445
45303	15	1.976	20.818	45375	24	14.237	25.413	45447	21	18.508	2.625	45519	28	0.946	7.364	45591	27	8.708	11.852
45304	25	2.126	20.268	45376	10	23.620	25.921	45448*	86	19.724	2.261	45520	11	5.659	7.659	45592	9	10.216	11.306
45305	25	11.732	20.852					45449	8	20.452	2.465	45521	8	6.396	7.191	45593	36	10.364	11.730
45306*	78	12.974	20.780					45450	39	22.192	2.307	45522	8	7.757	7.451	45594	26	10.596	11.712
45307	14	14.855	20.721					45451	8	23.256	2.955	45523	13	7.825	7.770	45595	20	11.765	11.136
45308	11	15.857	20.298					45452	35	25.344	2.316	45524	38	9.592	7.634	45596*	62	13.394	11.206
45309	12	16.717	20.401					45453	8	0.142	3.033	45525	10	11.638	7.375	45597	14	15.804	11.550
45310	8	19.522	20.852					45454	13	0.241	3.792	45526	30	11.720	7.526	45598	8	16.015	11.588
45311	29	19.582	20.879					45455	12	7.000	3.663	45527	15	13.368	7.322	45599	11	20.696	11.104
45312	16	4.280	21.740					45456	8	7.486	3.579	45528	28	15.240	7.573	45600	26	21.944	11.104
45313	10	7.491	21.816					45457*	49	7.516	3.644	45529	10	15.840	7.744	45601	34	24.634	11.642
45314	34	7.986	21.144					45458	28	8.266	3.366	45530*	42	16.659	7.650	45602	11	25.308	11.094
45315	10	10.707	21.157					45459	8	9.700	3.788	45531	11	23.066	7.150	45603	8	0.444	12.490
45316	14	10.726	21.766					45460	9	10.906	3.752	45532	8	24.008	7.714	45604	9	1.320	12.401
45317*	42	11.750	21.365					45461	24	11.740	3.649	45533	8	24.259	7.050	45605*	84	1.688	12.342
45318	14	13.851	21.584					45462	18	11.792	3.362	45534	8	24.723	7.206	45606	12	2.543	12.606
45319	12	15.464	21.011					45463	8	12.199	3.998	45535	21	0.229	8.562	45607	20	2.674	12.319
45320	11	17.072	21.442					45464	8	12.430	3.352	45536	32	4.075	8.394	45608	21	2.776	12.130
45321*	41	17.890	21.291					45465	11	13.572	3.171	45537	8	5.398	8.470	45609	15	3.806	12.724
45322	23	18.448	21.462					45466	48	14.355	3.189	45538	9	6.932	8.661	45610	17	4.013	12.766
45323	20	18.714	21.592					45467	8	15.550	3.921	45539	9	9.645	8.221	45611	13	4.754	12.164
45324	18	19.987	21.755					45468	23	16.376	3.663	45540	8	10.539	8.570	45612	9	5.464	12.365
45325	8	22.477	21.055					45469	42	18.545	3.478	45541	9	11.683	8.476	45613	28	5.833	12.884
45326	19	24.295	21.758					45470	12	22.058	3.028	45542	9	12.404	8.994	45614	10	8.070	12.750
45327	15	2.248	22.411					45471	24	24.468	3.553	45543	8	13.517	8.854	45615*	80	9.040	12.993
45328	22	6.860	22.214					45472	23	24.8									

45623	8	19:524	12:643	45695	11	21:730	16:900	45767	32	5:550	19:500	45839	8	7:524	22:315	45911	32	7:335	25:083
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45625*	66	20:266	12:689	45697	9	22:748	16:134	45769	30	7:714	19:739	45841	34	10:344	22:110	45913	15	8:474	25:780
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45628	11	23:866	12:446	45700	9	25:686	16:795	45772	8	13:354	19:508	45844	21	12:577	22:346	45916	9	9:504	25:849
45629	15	23:884	12:436	45701	11	0:286	17:742	45773*	53	15:206	19:876	45845	8	13:811	22:558	45917	26	10:198	25:690
45630	10	25:000	12:364	45702	23	1:034	17:016	45774	11	15:314	19:714	45846	8	15:000	22:825	45918	11	10:768	25:486
45631	8	1:502	13:745	45703	28	2:917	17:292	45775	27	17:830	19:740	45847	13	18:812	22:916	45919	33	10:830	25:433
45632	33	2:406	13:840	45704	35	3:828	17:936	45776	9	19:129	19:884	45848	11	22:613	22:139	45920	21	11:402	25:542
45633	21	4:382	13:434	45705	11	5:009	17:550	45777	28	20:354	19:257	45849	37	22:806	22:115	45921	29	11:881	25:494
45634	12	6:720	13:966	45706*	65	5:403	17:276	45778	8	21:160	19:500	45850*	67	23:477	22:562	45922	8	12:250	25:559
45635	36	9:220	13:871	45707	31	6:858	17:608	45779	29	21:404	19:796	45851	12	24:265	22:046	45923	13	12:916	25:179
45636	10	9:282	13:191	45708*	54	7:046	17:532	45780	10	22:575	19:194	45852	35	24:276	22:924	45924	8	13:220	25:016
45637	9	9:554	13:703	45709	10	7:674	17:999	45781*	51	22:696	19:798	45853	39	25:516	22:985	45925	27	17:916	25:541
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45641	29	18:951	13:375	45713	15	13:998	17:538	45785	32	24:098	19:149	45857*	52	5:247	23:620	45929	34	19:299	25:217
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45644	37	20:326	13:495	45716	8	17:694	17:347	45788	8	25:974	19:585	45860	8	7:459	23:416	45932	25	23:870	25:777
45645	37	20:985	13:902	45717	9	18:240	17:482	45789	35	0:870	20:048	45861	8	8:607	23:126	45933	52	24:682	25:947
45646	29	21:035	13:368	45718	11	18:707	17:736	45790	8	4:040	20:542	45862	8	10:620	23:898	45934	10	24:784	25:248
45647*	73	24:213	13:690	45719	8	18:830	17:770	45791	26	8:065	20:828	45863*	41	10:994	23:720				
45648	43	25:735	13:574	45720	8	19:352	17:440	45792	38	8:228	20:950	45864	9	11:222	23:842				
45649	8	0:153	14:959	45721*	58	20:094	17:484	45793	28	8:464	20:137	45865	12	11:770	23:956				
45650	8	2:225	14:970	45722*	63	20:730	17:590	45794	21	8:505	20:164	45866	28	12:074	23:554				
45651	27	3:272	14:970	45723	8	21:114	17:576	45795	29	8:550	20:648	45867	8	12:626	23:258				
45652	10	4:761	14:648	45724	11	22:065	17:625	45796	8	8:706	20:864	45868	10	13:935	23:032				
45653	12	7:546	14:361	45725	27	22:154	17:796	45797	9	10:116	20:338	45869	12	16:536	23:022				
45654*	75	10:910	14:012	45726	13	22:406	17:449	45798	8	11:096	20:836	45870	8	16:556	23:427				
45655	31	10:924	14:042	45727	9	22:790	17:306	45799	9	11:771	20:496	45871	8	18:419	23:844				
45656	8	14:027	14:602	45728*	53	23:357	17:396	45800	12	13:520	20:330	45872	16	18:855	23:428				
45657	11	16:700	14:324	45729	18	23:676	17:484	45801	36	14:406	20:594	45873	27	19:280	23:569				
45658	9	17:079	14:338	45730	13	24:607	17:929	45802	8	15:422	20:031	45874	9	19:286	23:121				
45659	8	17:727	14:188	45731	40	25:000	17:900	45803	10	16:550	20:915	45875	8	22:262	23:890				
45660	12	23:340	14:228	45732	46	25:658	17:724	45804	8	16:818	20:282	45876	10	22:508	23:641				
45661	8	24:421	14:270	45733	34	0:266	18:674	45805	8	17:456	20:232	45877	34	22:633	23:454				
45662	8	25:155	14:619	45734	46	0:435	18:986	45806	11	18:016	20:524	45878	14	23:315	23:070				
45663	36	0:680	15:149	45735	9	1:136	18:526	45807	10	18:197	20:230	45879	11	24:936	23:816				
45664*	70	8:660	15:426	45736	39	2:551	18:458	45808	8	19:766	20:449	45880	12	25:756	23:292				
45665	41	10:286	15:022	45737	45	3:060	18:378	45809	39	20:255	20:148	45881	28	2:994	24:149				
45666	42	12:938	15:750	45738	14	3:460	18:416	45810	11	20:300	20:910	45882	14	3:259	24:789				
45667	11	13:522	15:981	45739	8	4:853	18:698	45811	8	22:138	20:204	45883	22	5:636	24:578				
45668	10	18:840	15:978	45740	8	8:413	18:418	45812	31	23:692	20:726	45884	29	7:376	24:230				
45669*	66	17:640	15:082	45741	19	8:956	18:324	45813	9	25:056	20:252	45885	8	9:570	24:718				
45670	10	18:147	15:720	45742	29	10:090	18:248	45814	8	5:885	21:772	45886	8	9:889	24:561				
45671	28	18:676	15:335	45743	16	10:112	18:842	45815	8	7:566	21:525	45887	8	11:060	24:230				
45672	33	21:018	15:679	45744	12	10:551	18:860	45816	27	7:708	21:612	45888	8	12:344	24:293				
45673	8	21:363	15:348	45745	41	10:670	18:234	45817	8	8:114	21:512	45889*	39	15:801	24:032				
45674	35	24:065	15:320	45746	40	11:175	18:076	45818	13	8:314	21:218	45890	10	18:452	24:787				
45675	8	24:466	15:520	45747*	54	12:344	18:950	45819	11	9:472	21:184	45891	29	20:656	24:850				
45676	42	24:572	15:557	45748	24	13:664	18:680	45820	29	10:084	21:114	45892	8	20:986	24:510				
45677	27	24:787	15:065	45749	9	13:978	18:792	45821	39	13:450	21:602	45893	18	21:633	24:704				
45678	25	0:174	16:700	45750	20	19:706	18:766	45822*	44	14:156	21:868	45894*	40	21:636	24:864				
45679	25	2:366	16:005	45751	8	20:400	18:089	45823	8	14:285	21:174	45895	10	22:382	24:174				
45680	8	4:296	16:890	45752	11	20:696	18:560	45824	8	15:160	21:414	45896	8	22:845	24:054				
45681	8	5:816	16:532	45753	11	21:330	18:584	45825*	47	16:774	21:274	45897	18	24:255	24:588				
45682	34	6:756	16:564	45754	14	22:264	18:713	45826	8	17:214	21:290	45898	8	24:449	24:649				
45683	18	7:850	16:640	45755	8	22:500	18:675	45827	19	17:900	21:456	45899	8	25:586	24:444				
45684	11	8:118	16:420	45756	11	22:544	18:666	45828	8	18:783	21:250	45900	8	25:800	24:092				
45685*	53	8:180	16:122	45757	9	22:548	18:962	45829*	44	19:650	21:686	45901	8	3:708	25:570				
45686	40	11:636	16:682	45758	24	22:562	18:919	45830	8	22:110	21:370	45902	16	4:096	25:381				
45687	15	12:646	16:246	45759	9	22:814	18:752	45831	9	22:632	21:556	45903	25	4:729	25:840				
45688	11	16:316	16:079	45760	8	22:942	18:006	45832	8	24:144	21:255	45904	8	4:916	25:896				
45689	8	17:544	16:199	45761	11	24:150	18:554	45833	27	24:676	21:723	45905	47	6:059	25:500				

45975	40	19.908	1.766	46047	8	1.708	7.756	46119	8	6.302	11.962	46191	8	13.759	14.799	46263	12	5.185	18.561
45976	8	23.048	1.074	46048	9	5.020	7.878	46120	9	6.763	11.704	46192	19	15.528	14.624	46264	8	6.092	18.628
45977	31	23.058	1.850	46049	8	5.228	7.222	46121	8	7.426	11.332	46193	12	15.734	14.569	46265	21	8.193	18.931
45978	10	23.616	1.716	46050	18	5.284	7.426	46122	10	8.961	11.068	46194	8	17.643	14.256	46266	18	8.500	18.802
45979	12	23.866	1.160	46051*	50	10.675	7.133	46123	9	8.970	11.781	46195	8	22.448	14.812	46267	8	10.728	18.664
45980	22	2.950	2.336	46052	8	18.567	7.272	46124	12	9.302	11.847	46196	15	22.924	14.424	46268	14	13.630	18.220
45981	10	3.894	2.122	46053	8	19.835	7.175	46125	8	10.868	11.823	46197	20	22.940	14.412	46269	18	16.475	18.039
45982	9	4.200	2.022	46054	11	22.008	7.370	46126	10	11.223	11.693	46198	15	24.254	14.872	46270	8	17.812	18.808
45983	8	4.276	2.247	46055	8	4.905	8.450	46127	11	21.638	11.322	46199	17	1.895	15.360	46271	35	19.042	18.037
45984*	44	6.738	2.116	46056	8	5.190	8.192	46128	8	22.328	11.572	46200	25	2.409	15.588	46272	8	22.289	18.904
45985	13	19.649	2.829	46057	9	5.370	8.576	46129*	27	22.344	11.590	46201	11	2.615	15.092	46273*	40	23.377	18.872
45986	26	20.154	2.046	46058	18	7.376	8.653	46130*	50	22.450	11.736	46202	10	5.360	15.328	46274	10	25.464	18.686
45987	23	20.501	2.189	46059	11	8.100	8.036	46131	14	23.632	11.744	46203	12	12.234	15.028	46275	44	25.478	18.714
45988	9	22.882	2.199	46060	11	8.115	8.040	46132	10	23.712	11.739	46204	12	12.758	15.778	46276	8	0.475	19.257
45989	8	23.056	2.670	46061	12	8.127	8.185	46133	8	24.860	11.269	46205	9	16.912	15.630	46277	45	0.605	19.860
45990*	60	24.636	2.051	46062	11	9.184	8.319	46134	8	25.746	11.796	46206	10	20.714	15.271	46278	8	0.680	19.492
45991	11	2.098	3.589	46063	25	13.852	8.824	46135	11	25.794	11.713	46207	14	22.455	15.068	46279	13	1.184	19.572
45992	10	2.508	3.909	46064	14	15.342	8.640	46136	22	0.446	12.226	46208	12	22.986	15.450	46280	19	1.255	19.588
45993	8	2.532	3.320	46065	9	15.506	8.502	46137	10	1.410	12.490	46209	41	23.903	15.048	46281	12	1.995	19.188
45994	10	2.982	3.617	46066*	31	18.312	8.880	46138	8	1.650	12.490	46210	15	24.148	15.542	46282	12	2.347	19.650
45995	11	4.486	3.612	46067*	125	18.636	8.300	46139	10	1.665	12.480	46211	14	25.012	15.724	46283	8	2.681	19.908
45996	8	5.192	3.909	46068	25	19.391	8.098	46140	8	5.994	12.511	46212	8	0.561	16.916	46284	9	6.388	19.348
45997	8	6.101	3.464	46069	19	20.646	8.498	46141	8	8.706	12.540	46213	13	4.069	16.466	46285	20	7.292	19.081
45998	8	6.675	3.930	46070	8	20.951	8.288	46142	8	9.322	12.330	46214	13	5.212	16.229	46286	8	7.538	19.883
45999	20	8.282	3.313	46071	8	22.936	8.050	46143*	58	9.802	12.744	46215	8	6.112	16.809	46287	8	8.686	19.350
46000	9	10.186	3.147	46072	22	23.572	8.170	46144	10	11.810	12.401	46216	32	6.393	16.150	46288	8	12.726	19.832
46001	23	15.072	3.904	46073*	33	24.348	8.538	46145	9	14.158	12.760	46217	8	6.450	16.828	46289	32	19.850	19.359
46002	9	17.421	3.842	46074	20	1.330	9.584	46146	16	15.225	12.421	46218	11	7.368	16.832	46290	8	20.240	19.810
46003	11	19.596	3.685	46075	16	6.260	9.294	46147	8	15.452	12.944	46219	20	8.846	16.927	46291	28	25.296	19.818
46004	10	21.004	3.919	46076	8	6.470	9.387	46148	10	16.863	12.472	46220	8	13.590	16.934	46292	14	1.620	20.792
46005	19	21.407	3.384	46077	9	10.858	9.540	46149	20	17.470	12.162	46221	11	19.386	16.668	46293	8	1.917	20.540
46006	17	22.117	3.312	46078	8	11.244	9.948	46150*	42	17.772	12.396	46222	10	19.654	16.410	46294	8	5.390	20.470
46007	8	22.206	3.116	46079	13	12.107	9.719	46151	8	18.920	12.384	46223	26	21.578	16.420	46295	9	6.266	20.630
46008	8	23.783	3.825	46080*	49	12.124	9.629	46152	12	18.982	12.888	46224	8	21.690	16.852	46296	17	6.878	20.252
46009	70	25.597	3.468	46081	8	12.168	9.696	46153	11	19.330	12.774	46225	9	21.776	16.586	46297	8	8.052	20.785
46010	50	25.949	3.521	46082*	49	12.465	9.146	46154	8	20.963	12.454	46226	21	22.010	16.290	46298	13	9.177	20.834
46011	8	2.970	4.102	46083	11	13.350	9.456	46155	16	21.077	12.987	46227	10	23.635	16.580	46299	15	10.500	20.589
46012*	66	3.222	4.916	46084	21	14.013	9.477	46156	10	21.108	12.520	46228	19	24.011	16.741	46300*	49	19.630	20.792
46013	14	3.705	4.173	46085	8	16.446	9.680	46157	13	21.262	12.700	46229	13	0.027	17.870	46301	24	20.600	20.772
46014	8	7.898	4.738	46086	8	16.664	9.579	46158	8	22.651	12.632	46230	9	0.273	17.517	46302	8	22.588	20.788
46015	8	9.746	4.370	46087*	27	16.878	9.059	46159	11	23.130	12.012	46231*	47	1.224	17.447	46303	22	25.310	20.319
46016	12	10.182	4.836	46088	9	19.816	9.444	46160	8	25.152	12.202	46232	8	1.546	17.530	46304	8	0.572	21.618
46017	8	11.406	4.593	46089	9	21.328	9.402	46161	9	25.352	12.152	46233	8	2.484	17.960	46305	14	2.620	21.750
46018	16	11.410	4.518	46090	32	21.345	9.931	46162	11	25.380	12.397	46234	24	2.877	17.921	46306	12	4.398	21.938
46019	14	11.906	4.472	46091	13	21.912	9.922	46163*	60	2.014	13.726	46235*	32	3.528	17.734	46307	23	4.840	21.353
46020	11	12.830	4.737	46092	17	22.240	9.099	46164	25	3.538	13.584	46236	8	5.414	17.394	46308	26	8.518	21.168
46021	13	16.683	4.230	46093	25	22.941	9.850	46165	12	4.867	13.750	46237	8	7.862	17.046	46309	15	9.908	21.892
46022	10	20.807	4.699	46094	21	25.336	9.872	46166	10	5.614	13.724	46238*	29	9.316	17.156	46310	9	10.662	21.477
46023	17	22.738	4.748	46095	8	0.775	10.367	46167	11	6.642	13.870	46239	22	9.488	17.882	46311	8	16.648	21.700
46024	21	24.274	4.858	46096	16	1.342	10.579	46168	15	7.014	13.290	46240	10	9.700	17.448	46312	8	16.743	21.642
46025	8	24.774	4.258	46097	8	1.791	10.921	46169*	57	7.038	13.264	46241	23	9.765	17.655	46313	12	17.162	21.720
46026	14	25.208	4.234	46098	12	2.076	10.604	46170	9	7.557	13.854	46242	9	11.888	17.656	46314	38	21.368	21.734
46027	33	6.357	5.458	46099	15	5.932	10.562	46171	8	10.951	13.246	46243	8	14.854	17.348	46315	8	0.563	22.202
46028	15	7.312	5.597	46100	13	8.698	10.864	46172	12	14.648	13.856	46244	9	16.586	17.912	46316	24	0.756	22.176
46029	15	7.376	5.619	46101	8	8.831	10.419	46173	12	15.456	13.972	46245	10	18.719	17.868	46317*	53	1.432	22.609
46030	13	7.524	5.238	46102	14	9.446	10.522	46174	10	19.200	13.697	46246	13	19.922	17.818	46318	19	2.238	22.957
46031	10	7.588	5.300	46103	13	9.784	10.309	46175	9	20.810	13.800	46247	22	20.656	17.560	46319	20	3.480	22.997
46032	22	16.969	5.600	46104*	71	9.857	10.138	46176	11	20.909	13.442	46248	8	21.068	17.306	46320	8	7.478	22.911
46033	12	20.006	5.072	46105	9	10.067	10.418	46177	13	22.198	13.442	46249	8	21.133	17.922	46321	9	16.011	22.660
46034	22	21.457	5.300	46106*	56	10.616	10.902	46178	17	23.026	13.670	46250	8	22.379	17.203	46322*	48	17.513	22.318
46035	8	24.259	5.129	46107	9	17.763	10.896	46179	15	23.230	13.408	46251	8	23.294	17.310	46323	22	17.806	22.298
46036	10	1.818	6.658	46108	9	18.702	10.868	46180	9	25.453	13.818	46252	10	23.918	17.466	46324	8	18.292	22.382
46037	8	7.524	6.537	46109	15	19.678	10.469	46181	8	1.150	14.282	46253	8	25.508	17.422	46325*	34	18.936	22.973

46335	9	2.916	23.838	R.A. 17^h 20^m Plate 721; 1916 May 7. <i>Provisional Constants.</i> <div style="display: flex; justify-content: space-around;"> <div>A</div> <div>B</div> <div>C</div> </div> $-0.02571 + 0.00557 + 1.004$ <div style="display: flex; justify-content: space-around;"> <div>D</div> <div>E</div> <div>F</div> </div> $-0.00582 - 0.02574 + 0.0319$ $Mag. = 16.9 - 1.05 \sqrt{d}$	46456	13	0.495	2.591	46528*	53	14.864	4.264	46600	15	15.340	7.328
46336	10	3.726	23.299		46457	32	0.668	2.245	46529	9	15.408	4.890	46601	8	15.576	7.141
46337	22	5.742	23.600		46458	15	1.225	2.105	46530	17	15.894	4.630	46602	11	17.098	7.782
46338	8	7.617	23.676		46459	8	1.231	2.087	46531	41	21.294	4.490	46603	10	17.341	7.654
46339*	40	8.410	23.284		46460*	64	2.242	2.433	46532	8	24.390	4.801	46604	31	20.206	7.913
46340	8	9.331	23.716		46461	14	3.676	2.677	46533	8	24.526	4.780	46605	14	22.198	7.300
46341	8	9.601	23.392		46462	8	4.236	2.809	46534	27	0.366	5.144	46606	8	22.264	7.959
46342	9	11.224	23.122		46463	10	4.785	2.860	46535	9	1.165	5.591	46607	16	22.428	7.700
46343	10	11.464	23.942		46464	28	6.680	2.409	46536	8	1.593	5.355	46608	10	23.006	7.434
46344	8	12.356	23.548		46465	21	9.234	2.130	46537	8	1.894	5.516	46609	8	23.394	7.806
46345	20	13.051	23.094	<div style="display: flex; justify-content: space-around;"> <div>No.</div> <div>d</div> <div>x</div> <div>y</div> </div>	46466	16	13.822	2.783	46538	29	1.905	5.242	46610	11	23.420	7.284
46346	13	14.276	23.060		46467	8	14.648	2.342	46539	8	6.039	5.113	46611	8	23.528	7.914
46347*	36	18.623	23.922		46468	10	14.788	2.693	46540	8	6.546	5.996	46612	46	23.820	7.190
46348	9	21.804	23.053		46469	8	14.928	2.817	46541	24	12.312	5.620	46613	8	23.899	7.295
46349	12	2.249	24.621		46470	20	15.269	2.571	46542	8	12.975	5.614	46614	9	24.282	7.652
46350	8	3.578	24.456		46471	8	16.700	2.561	46543	8	13.514	5.130	46615	21	24.366	7.126
46351	24	4.250	24.690		46472	44	20.750	2.851	46544	26	13.660	5.460	46616	20	24.474	7.546
46352	19	4.608	24.314		46473	8	20.817	2.748	46545	27	15.370	5.418	46617	29	24.631	7.734
46353	12	6.550	24.706		46474	30	21.825	2.118	46546	35	16.233	5.350	46618	15	0.585	8.442
46354	8	6.887	24.544		46475	8	22.503	2.458	46547	8	17.595	5.682	46619	28	1.224	8.559
46355	8	9.790	24.292	<div style="display: flex; justify-content: space-around;"> <div>No.</div> <div>d</div> <div>x</div> <div>y</div> </div>	46476	8	22.764	2.724	46548	41	21.828	5.786	46620*	37	2.000	8.923
46356	11	10.944	24.418		46477	26	23.970	2.492	46549	20	22.193	5.298	46621	8	2.024	8.224
46357*	31	11.758	24.200		46478	8	23.994	2.518	46550	23	22.954	5.874	46622	8	2.677	8.608
46358	24	11.974	24.632		46479	12	0.672	3.064	46551	8	24.248	5.388	46623	11	2.685	8.272
46359	8	12.576	24.430		46480	8	1.744	3.809	46552	8	24.286	5.414	46624	8	3.211	8.135
46360	13	12.732	24.492		46481*	72	3.210	3.841	46553	49	25.770	5.519	46625*	74	3.805	8.094
46361	8	12.958	24.462		46482*	49	3.565	3.896	46554	31	25.854	5.665	46626	25	5.166	8.186
46362	14	17.478	24.710		46483	22	6.826	3.352	46555	8	1.711	6.414	46627	10	5.674	8.463
46363	10	18.204	24.147		46484	8	7.910	3.627	46556	9	2.495	6.590	46628	15	6.736	8.414
46364	8	19.969	24.813		46485	12	8.486	3.550	46557	29	3.385	6.706	46629	20	7.294	8.478
46365	44	25.810	24.094	<div style="display: flex; justify-content: space-around;"> <div>No.</div> <div>d</div> <div>x</div> <div>y</div> </div>	46486	8	10.148	3.892	46558	13	4.523	6.415	46630	22	7.934	8.432
46366	26	0.023	25.741		46487	8	11.546	3.798	46559	28	5.922	6.077	46631	19	8.294	8.138
46367	12	1.884	25.820		46488	8	12.857	3.788	46560	8	6.998	6.112	46632	22	8.944	8.446
46368	42	2.698	25.976		46489	8	12.882	3.826	46561	21	7.902	6.276	46633	8	9.586	8.293
46369	8	2.784	25.270		46490	8	13.625	3.920	46562	8	9.852	6.800	46634	11	9.852	8.534
46370	9	5.588	25.142		46491	21	15.045	3.845	46563	30	10.314	6.690	46635	8	10.444	8.408
46371	8	5.589	25.710		46492	8	16.170	3.886	46564	26	10.396	6.332	46636	10	10.614	8.440
46372	15	6.108	25.580		46493	22	16.577	3.851	46565	14	12.376	6.244	46637	14	11.860	8.700
46373	23	6.144	25.421		46494	25	16.613	3.862	46566	8	12.467	6.592	46638	34	12.636	8.904
46374	18	6.848	25.042		46495	17	16.717	3.356	46567	15	14.184	6.334	46639	8	13.942	8.695
46375	13	7.502	25.362	<div style="display: flex; justify-content: space-around;"> <div>No.</div> <div>d</div> <div>x</div> <div>y</div> </div>	46496	11	16.948	3.797	46568	21	14.294	6.106	46640	8	13.983	8.600
46376	9	8.184	25.612		46497	24	17.624	3.165	46569	11	14.776	6.780	46641	19	14.385	8.845
46377	21	8.406	25.816		46498	8	18.215	3.061	46570	44	14.785	6.764	46642	8	18.986	8.550
46378	15	11.384	25.167		46499	21	18.250	3.620	46571	8	15.178	6.726	46643	8	19.351	8.353
46379	8	12.044	25.382		46500	13	19.306	3.780	46572	12	15.509	6.852	46644	26	19.466	8.022
46380	22	12.886	25.819		46501	16	19.840	3.666	46573	8	15.873	6.426	46645	8	19.770	8.540
46381	9	13.041	25.050		46502	8	20.958	3.522	46574	10	16.806	6.688	46646	10	20.224	8.905
46382	21	14.596	25.423		46503	37	23.308	3.842	46575	9	17.015	6.616	46647	10	20.225	8.968
46383	41	15.670	25.792		46504	8	24.550	3.644	46576	8	18.737	6.337	46648	13	20.435	8.338
46384	15	16.596	25.716		46505	8	24.625	3.817	46577	32	19.080	6.226	46649	19	20.894	8.330
46385	8	16.848	25.812	<div style="display: flex; justify-content: space-around;"> <div>No.</div> <div>d</div> <div>x</div> <div>y</div> </div>	46506	16	25.071	3.220	46578	29	21.116	6.964	46650	17	23.126	8.964
46386	8	17.277	25.673		46507	11	25.410	3.240	46579	35	21.710	6.654	46651	22	24.415	8.410
46387	10	18.198	25.698		46508	14	1.407	4.214	46580	15	21.940	6.344	46652	25	25.270	8.308
46388	11	18.269	25.471		46509	8	1.650	4.866	46581	22	22.166	6.753	46653	22	25.886	8.398
					46510	8	2.266	4.878	46582	37	22.191	6.332	46654	22	4.086	9.886
					46511	8	2.400	4.640	46583	8	23.567	6.481	46655	8	4.466	9.270
					46512	18	2.834	4.610	46584*	59	23.763	6.887	46656	13	5.065	9.424
					46513	8	4.631	4.870	46585	8	24.567	6.506	46657	10	5.734	9.740
					46514*	49	6.968	4.436	46586	33	25.416	6.698	46658	8	6.718	9.860
					46515	28	7.574	4.634	46587	14	1.798	7.466	46659	8	8.996	9.238
					46516	8	7.872	4.552	46588	8	2.170	7.365	46660	16	10.852	9.076
				<div style="display: flex; justify-content: space-around;"> <div>No.</div> <div>d</div> <div>x</div> <div>y</div> </div>	46517	8	8.757	4.177	46589	8	6.958	7.800	46661	14	10.998	9.636
					46518	17	9.720	4.602	46590	8	8.615	7.994	46662	8	12.145	9.580
					46519	10	10.665	4.343	46591	22	11.980	7.612	46663	19	12.780	9.431
					46520	10	10.787	4.698	46592	10	12.001	7.254	46664	8	12.916	9.480
					46521	39	11.282	4.784	46593	11	12.216	7.031	46665	41	13.184	9.956
					46522	23	12.524	4.699	46594	12	12.612	7.455	46666	12	16.564	9.995
					46523	10	12.896	4.411	46595	8	12.630	7.180	46667	11	17.568	9.978
					46524	13	13.062	4.774	46596	10	13.342	7.777	46668	20	18.364	9.306
					46525	8	14.109	4.613	46597	10	13.600	7.702	46669	12	19.214	9.370
					46526	8	14.284	4.485	46598	28	13.630	7.016	46670	29	21.583	9.852
					46527	19	14.524	4.645	46599	8	13.660	7.536	46671	9	21.848	9.975

46672	8	22.320	9.785	46744	9	8.028	12.862	46816	26	0.154	15.465	46888	18	12.858	18.600	46960	8	12.772	23.467
46673	14	23.056	9.127	46745	11	10.585	12.746	46817	22	0.686	15.845	46889	32	18.208	18.414	46961	8	13.296	23.415
46674*	35	23.563	9.417	46746	8	11.884	12.724	46818	44	1.598	15.435	46890	8	19.155	18.950	46962*	44	16.128	23.204
46675*	43	23.570	9.393	46747	8	12.900	12.355	46819	21	1.848	15.926	46891	38	19.186	18.712	46963	8	24.208	13.456
46676	11	23.686	9.527	46748	12	13.001	12.418	46820	23	1.954	15.256	46892	8	20.022	18.790	46964	23	24.715	23.896
46677*	76	24.376	9.472	46749	15	13.978	12.410	46821	8	2.616	15.779	46893	8	22.751	18.637	46965*	50	3.565	24.465
46678	20	24.754	9.088	46750	8	14.664	12.975	46822	10	3.266	15.714	46894	34	23.632	18.084	46966	10	7.248	24.321
46679	8	25.489	9.314	46751	9	14.674	12.959	46823	17	4.225	15.508	46895	8	25.073	18.471	46967	8	7.394	24.074
46680	34	0.602	10.245	46752	45	14.724	12.590	46824	13	7.320	15.418	46896*	42	1.098	19.263	46968	14	10.688	24.734
46681	20	1.478	10.812	46753	12	15.273	12.242	46825	20	8.991	15.532	46897	15	3.187	19.063	46969	30	11.512	24.321
46682	12	1.816	10.754	46754	10	15.506	12.940	46826	15	9.272	15.864	46898*	46	3.196	19.090	46970	32	11.988	24.012
46683	8	2.536	10.732	46755	10	16.066	12.538	46827	42	9.504	15.744	46899	17	6.355	19.312	46971	28	14.396	24.773
46684	29	3.000	10.250	46756	8	17.779	12.663	46828	21	9.512	15.240	46900	28	9.075	19.855	46972	8	15.661	24.352
46685	9	3.440	10.686	46757	8	19.102	12.942	46829	8	9.524	15.868	46901	8	10.895	19.332	46973	24	17.945	24.306
46686	8	6.347	10.630	46758	8	19.785	12.813	46830	29	9.573	15.445	46902*	38	11.123	19.644	46974	23	18.104	24.415
46687	28	6.681	10.696	46759	8	20.806	12.716	46831	8	10.583	15.977	46903	8	11.148	19.410	46975	32	18.860	24.114
46688	8	7.961	10.644	46760	8	20.906	12.396	46832	22	10.931	15.194	46904	29	11.356	19.638	46976	11	4.486	25.652
46689	9	8.297	10.320	46761	9	22.114	12.649	46833	8	11.470	15.566	46905	10	12.826	19.394	46977	8	8.728	25.520
46690	17	8.764	10.678	46762	10	22.252	12.316	46834	17	11.998	15.890	46906	29	16.374	19.083	46978	26	9.044	25.602
46691	9	13.838	10.892	46763	17	22.585	12.770	46835	8	15.732	15.550	46907	9	17.596	19.250	46979	12	9.524	25.948
46692	11	14.127	10.036	46764	17	23.134	12.853	46836*	63	17.659	15.638	46908	35	18.312	19.950	46980	29	10.205	25.943
46693	8	14.328	10.625	46765	8	23.028	12.962	46837	21	19.092	15.720	46909	8	21.836	19.418	46981	8	11.232	25.246
46694	12	14.606	10.079	46766	16	24.007	12.355	46838*	52	20.456	15.107	46910	8	22.186	19.844	46982	24	11.336	25.003
46695	48	15.350	10.148	46767	9	25.966	12.682	46839	8	21.890	15.038	46911	13	22.242	19.714	46983	14	11.856	25.241
46696	13	15.707	10.372	46768	11	0.333	13.026	46840	8	22.806	15.804	46912*	32	22.264	19.420	46984	16	16.262	25.288
46697	14	16.296	10.581	46769	22	0.916	13.798	46841	8	23.390	15.454	46913	8	22.624	19.306	46985	8	17.558	25.133
46698	11	17.661	10.394	46770	8	2.672	13.945	46842	8	24.296	15.989	46914*	55	22.804	19.420	46986	44	17.954	25.912
46699	23	19.134	10.454	46771	8	4.400	13.796	46843	8	24.336	15.836	46915	8	22.861	19.912				
46700	8	19.497	10.726	46772*	46	4.510	13.766	46844	8	25.663	15.868	46916	25	23.736	19.709				
46701	12	23.234	10.551	46773	8	5.854	13.287	46845	17	1.345	16.968	46917	8	25.210	19.405				
46702	43	24.456	10.704	46774	25	6.824	13.755	46846	27	2.714	16.102	46918	32	3.024	20.196				
46703	13	24.625	10.034	46775	23	8.400	13.704	46847	27	5.162	16.754	46919	29	3.042	20.696				
46704	38	25.242	10.978	46776*	50	8.596	13.128	46848	25	6.056	16.652	46920	8	3.081	20.874				
46705	28	25.786	10.003	46777	8	12.546	13.563	46849	28	7.674	16.834	46921	16	4.678	20.400				
46706	34	0.018	11.987	46778	8	14.186	13.259	46850	14	9.132	16.784	46922	29	4.750	20.842				
46707	8	1.536	11.834	46779	8	21.488	13.763	46851*	110	9.425	16.783	46923	8	6.578	20.444				
46708	10	2.534	11.650	46780	12	22.816	13.254	46852	8	11.891	16.316	46924	17	6.937	20.638				
46709	10	5.014	11.340	46781	24	23.672	13.237	46853	8	14.056	16.997	46925	8	10.312	20.147				
46710*	68	6.124	11.222	46782	35	23.680	13.176	46854	8	14.464	16.893	46926	12	10.911	20.720				
46711	23	6.215	11.307	46783	8	23.925	13.083	46855	22	16.256	16.999	46927	24	13.241	20.527				
46712	27	6.270	11.049	46784	8	24.846	13.288	46856	8	17.065	16.474	46928	37	21.120	20.253				
46713	9	8.276	11.904	46785	33	24.886	13.444	46857	13	21.387	16.882	46929	8	21.195	20.332				
46714	8	8.329	11.491	46786	10	24.900	13.449	46858	8	22.620	16.316	46930	8	21.265	20.940				
46715	8	9.803	11.093	46787	8	25.114	13.336	46859	22	22.983	16.864	46931	20	24.370	20.280				
46716	8	14.606	11.534	46788	23	0.617	14.818	46860	10	1.004	17.700	46932	31	25.689	20.882				
46717	8	15.300	11.086	46789	25	0.636	14.806	46861	8	1.159	17.246	46933	8	0.326	21.180				
46718	8	15.772	11.076	46790	27	0.716	14.063	46862	8	1.534	17.670	46934	8	3.288	21.976				
46719	10	18.311	11.106	46791	8	0.930	14.472	46863	10	1.634	17.852	46935	15	6.842	21.848				
46720	11	19.174	11.526	46792	8	2.035	14.584	46864	29	1.720	17.126	46936*	55	9.030	21.480				
46721	28	19.436	11.700	46793	8	3.042	14.456	46865	8	2.255	17.067	46937*	60	10.122	21.616				
46722	21	19.544	11.612	46794	10	3.144	14.196	46866	8	2.439	17.727	46938	12	10.608	21.082				
46723	8	19.902	11.478	46795	13	4.024	14.484	46867	8	2.717	17.117	46939	8	23.209	21.779				
46724*	49	20.570	11.569	46796	16	4.046	14.522	46868	8	3.054	17.796	46940	8	24.467	21.461				
46725	20	20.925	11.210	46797	8	5.576	14.540	46869	8	3.222	17.798	46941	8	2.804	22.444				
46726	15	20.990	11.158	46798	8	6.006	14.704	46870	11	4.976	17.210	46942	10	5.136	22.634				
46727	13	22.693	11.858	46799	21	6.566	14.612	46871	8	5.488	17.114	46943	13	6.008	22.404				
46728	39	24.204	11.857	46800	8	7.906	14.050	46872	8	5.540	17.478	46944	27	6.635	22.626				
46729	8	25.675	11.644	46801	27	10.430	14.896	46873	10	5.900	17.994	46945	29	9.978	22.656				
46730	54	0.120	12.133	46802	8	10.500	14.362	46874	9	6.552	17.091	46946	10	10.736	22.113				
46731	19	0.810	12.406	46803*	65	11.454	14.871	46875	8	7.776	17.934	46947	28	17.276	22.866				
46732	20	1.308	12.132	46804	27	12.064	14.816	46876	26	10.296	17.648	46948	26	21.213	22.983				
46733	15	1.387	12.128	46805	10	12.753	14.524	46877	9	11.002	17.209	46949	36	21.606	22.344				
46734	8	2.832	12.582	46806	9	14.679	14.976	46878	21	13.374	17.680	46950	16	24.960	22.692				
46735	12	3.030	12.528	46807	35	15.216	14.605	46879	8	15.157	17.246	46951	23	25.720	22.650				
46736	15	3.062	12.774	46808	8	17.208	14.182	46880	28	16.188	17.379	46952	8	1.634	23.748				
46737	9	3.424	12.773	46809	8	19.361	14.193	46881	8	16.931	17.812	46953	9	2.770	23.845				
46738	13	3.472	12.090	46810	8	23.068	14.994	46882	8	22.078	17.609	46954	8	5.532	23.081				

47022	10	17-211	0-516	47094	12	25-166	2-687	47166	8	24-201	4-122	47238	8	2-194	7-571	47310	38	8-616	9-116
47023	10	17-215	0-876	47095	35	1-226	3-761	47167	9	24-434	4-702	47239	11	2-280	7-050	47311	9	8-863	9-554
47024	8	18-573	0-543	47096	8	2-548	3-741	47168	10	25-950	4-688	47240	10	2-385	7-469	47312	8	12-168	9-684
47025	8	18-750	0-830	47097	11	2-094	3-145	47169	12	0-109	5-216	47241	21	2-544	7-655	47313	8	12-250	9-219
47026	8	19-294	0-615	47098	10	3-332	3-165	47170	13	0-868	5-792	47242	8	5-340	7-462	47314	8	12-934	9-728
47027	8	20-132	0-946	47099	8	4-572	3-315	47171	8	2-164	5-314	47243	9	5-448	7-434	47315	8	13-287	9-038
47028	8	20-296	0-876	47100	31	5-018	3-131	47172	8	2-205	5-333	47244	9	5-922	7-356	47316*	78	13-442	9-824
47029	10	20-484	0-081	47101	40	6-694	3-548	47173*	48	3-685	5-444	47245	13	7-136	7-882	47317	8	13-924	9-810
47030	22	20-779	0-670	47102	8	7-475	3-782	47174	31	3-771	5-591	47246	10	8-545	7-896	47318	8	14-525	9-058
47031	8	21-065	0-106	47103*	36	7-698	3-747	47175	11	5-202	5-981	47247	8	9-265	7-684	47319	8	15-436	9-174
47032	8	21-695	0-456	47104	8	8-639	3-731	47176	12	6-618	5-292	47248	12	9-453	7-822	47320	15	16-494	9-560
47033	8	22-600	0-834	47105	12	8-734	3-721	47177	21	8-534	5-220	47249	8	11-899	7-400	47321	12	17-639	9-225
47034	9	22-822	0-700	47106	8	9-077	3-302	47178	8	9-880	5-766	47250	8	12-136	7-021	47322	13	17-800	9-788
47035	16	24-338	0-312	47107	17	10-169	3-645	47179	9	10-289	5-680	47251	8	13-226	7-401	47323	8	19-226	9-826
47036	12	25-641	0-240	47108	8	10-210	3-214	47180	8	10-408	5-868	47252	9	13-236	7-188	47324	10	20-722	9-501
47037	8	0-334	1-009	47109	9	10-688	3-476	47181*	82	10-713	5-804	47253	8	13-614	7-834	47325	8	21-568	9-823
47038	8	1-670	1-770	47110	8	10-884	3-559	47182	8	10-777	5-735	47254	9	13-945	7-356	47326*	60	23-650	9-915
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47750	8	19.750	24.426	47818	8	23.398	1.146	47890	38	21.550	7.161	47962	8	23.314	13.186	48034	9	15.420	21.628		
47751	8	20.450	24.686	47819	8	24.582	1.520	47891	10	22.112	7.268	47963	12	23.732	13.350	48035	12	20.312	21.924		
47752	8	20.766	24.645	47820	8	5.016	2.846	47892	8	22.372	7.065	47964	11	24.558	13.523	48036	16	0.260	22.626		
47753	8	20.898	24.762	47821	14	5.799	2.036	47893	8	23.104	7.493	47965	9	6.817	14.748	48037	10	2.446	22.262		
47754	11	22.124	24.877	47822	8	19.910	2.120	47894*	37	24.240	7.830	47966*	42	8.462	14.550	48038	10	11.414	22.162		
47755	8	22.825	24.892	47823*	60	21.570	2.884	47895	11	25.120	7.437	47967	10	8.810	14.020	48039	10	20.882	22.863		
47756	8	23.366	24.154	47824	8	23.872	2.768	47896	9	0.810	8.427	47968	20	10.475	14.300	48040	13	2.178	23.429		
47757	8	24.464	24.317	47825	11	0.634	3.812	47897	8	1.218	8.279	47969	10	15.336	14.846	48041	30	6.272	23.774		
47758	38	25.298	24.550	47826	10	0.752	3.419	47898	9	4.952	8.834	47970	20	15.698	14.364	48042	8	10.283	23.908		
47759	8	8.463	25.734	47827	8	0.974	3.507	47899	8	5.396	8.470	47971	8	0.039	15.228	48043	10	10.912	23.765		
47760	10	8.808	25.384	47828	33	1.640	3.089	47900	11	9.356	8.629	47972	10	1.240	15.030	48044	10	18.648	23.394		
47761	8	8.830	25.618	47829	8	3.524	3.646	47901	10	11.365	8.392	47973	10	3.030	15.602	48045	8	23.650	23.108		
47762	8	11.526	25.873	47830	16	5.191	3.161	47902	8	12.155	8.391	47974	14	9.222	15.956	48046	24	3.211	24.420		
47763*	28	12.123	25.076	47831	10	6.104	3.622	47903	8	13.159	8.728	47975	16	14.580	15.598	48047	9	4.184	24.138		
47764	8	12.946	25.524	47832	8	6.438	3.941	47904*	64	19.320	8.914	47976*	33	16.601	15.432	48048	8	13.200	24.500		
47765	10	13.266	25.811	47833*	36	9.406	3.289	47905	8	21.327	8.105	47977	12	18.540	15.700	48049*	8	13.219	24.910		
47766	57	13.635	25.494	47834*	39	11.473	3.095	47906	37	25.404	8.526	47978	8	23.935	15.632	48050	20	18.445	24.078		
47767	8	16.562	25.958	47835	8	14.308	3.799	47907*	47	1.227	9.832	47979	23	0.115	16.226	48051	8	2.558	25.925		
47768	12	17.345	25.554	47836	14	18.730	3.593	47908	8	5.249	9.046	47980	11	0.644	16.668	48052	11	2.682	25.738		
47769	8	18.004	25.546	47837*	38	22.504	3.008	47909	23	12.566	9.648	47981	12	1.990	16.875	48053	13	5.978	25.420		
47770	8	18.584	25.180	47838	18	23.307	3.878	47910	8	14.161	9.052	47982	8	3.128	16.771	48054	12	14.574	25.536		
47771	8	18.798	25.400	47839	10	25.214	3.305	47911	8	1.998	10.568	47983	8	4.125	16.290						
47772	10	19.521	25.313	47840	8	25.298	3.208	47912	10	4.594	10.453	47984*	44	5.808	16.670						
47773	8	19.562	25.204	47841	10	5.336	4.862	47913	11	7.484	10.858	47985	8	8.602	16.235						
47774	8	20.816	25.914	47842	13	6.867	4.741	47914	18	7.635	10.673	47986	21	9.650	16.239						
47775	12	21.290	25.036	47843	8	8.853	4.881	47915	8	11.197	10.422	47987	10	11.495	16.546						
47776	8	21.304	25.478	47844	31	13.336	4.546	47916	30	12.938	10.672	47988	14	23.742	16.572						
47777	10	21.697	25.540	47845	10	16.488	4.280	47917*	26	13.304	10.076	47989	8	1.580	17.995						
47778	9	21.994	25.530	47846	8	17.218	4.523	47918	10	14.962	10.572	47990	8	2.969	17.900						
47779	8	22.052	25.883	47847	12	17.666	4.843	47919	15	18.268	10.402	47991*	12	11.500	17.806						
47780	22	24.739	25.856	47848	8	19.840	4.483	47920	17	19.470	10.868	47992	33	14.948	17.204						
										47921	18	19.723	10.786	47993	8	15.636	17.576				
										47922	9	20.393	10.090	47994	10	21.968	17.936				
										47923	8	21.600	10.443	47995	10	24.842	17.963				
										47924	8	6.525	11.641	47996	9	25.445	17.308				
										47925	14	7.506	11.636	47997	10	3.993	18.960				
										47926	10	10.130	11.930	47998	10	6.999	18.822				
										47927	8	11.197	11.515	47999	8	7.114	18.845				
										47928*	39	11.417	11.372	48000	18	7.940	18.106				
										47929*	19	12.976	11.289	48001	18	8.181	18.398				
										47930	11	13.134	11.936	48002*	13	21.584	18.684				
										47931	8	15.535	11.106	48003	37	23.687	18.215				
										47932*	33	15.669	11.300	48004	8	0.022	19.754				
										47933	8	17.826	11.314	48005	22	3.219	19.316				
										47934	18	19.844	11.138	48006	20	4.440	19.600				
										47935	14	22.027	11.694	48007	26	9.816	19.718				
										47936	8	0.035	12.729	48008*	11	11.254	19.392				
										47937	9	0.486	12.977	48009	40	11.392	19.366				
										47938	9	2.040	12.969	48010	10	12.353	19.672				
										47939	10	3.461	12.420	48011	10	13.842	19.400				
										47940	12	6.041	12.740	48012	12	14.000	19.056				
										47941*	36	9.782	12.853	48013	8	14.768	19.905				
										47942	11	13.070	12.803	48014*	19	17.044	19.629				
										47943	12	17.480	12.514	48015	23	21.435	19.624				
										47944	25	18.136	12.077	48016	14	0.005	20.352				
										47945	8	24.788	12.091	48017	32	5.344	20.284				
										47946	10	0.468	13.811	48018	17	10.360	20.300				
										47947	8	0.736	13.554	48019	10	11.472	20.780				
										47948	8	1.470	13.295	48020	13	13.008	20.467				
										47949	9	1.492	13.386	48021	9	13.470	20.505				
										47950	8	2.379	13.700	48022	10	14.120	20.238				
										47951	8	4.103	13.550	48023	8	15.200	20.848				
										47952*	25	4.296	13.954	48024	8	21.286	20.160				
										47953	30	6.718	13.360	48025	8	24.865	20.786				

R.A. 17^h 36^m

Plate 736 ; 1916 June 30.

Provisional Constants.

A

B

C

−0.02571 + 0.00555 + 0.1500

D

E

F

−0.00597 − 0.02588 − 0.1254

Mag. = 15.8 − 1.05 √ d

No.	d	x	y
47801	11	1.691	0.217
47802	9	2.956	0.126
47803	8	5.607	0.746
47804	28	8.665	0.630
47805	9	10.371	0.318
47806	8	11.200	0.628
47807*	19	13.706	

48121	20	0.954	1.320	48193	8	4.949	4.380	48265	18	18.844	6.232	48337	12	10.804	9.287	48409	10	23.750	12.050
48122	22	2.142	1.675	48194	16	7.529	4.846	48266*	50	22.452	6.126	48338	9	12.884	9.570	48410	25	24.349	12.795
48123	10	2.167	1.646	48195	18	9.547	4.552	48267	15	23.824	6.148	48339	8	13.303	9.273	48411	29	24.708	12.050
48124	11	3.428	1.770	48196	8	9.920	4.017	48268	15	24.673	6.510	48340	8	14.988	9.908	48412	13	1.022	13.364
48125	11	4.498	1.958	48197*	50	13.068	4.097	48269	22	0.740	7.673	48341	14	15.892	9.077	48413	24	1.444	13.520
48126	8	4.942	1.040	48198	22	14.032	4.306	48270*	42	1.876	7.998	48342	13	15.956	9.426	48414	8	1.806	13.320
48127	13	5.722	1.816	48199	9	14.266	4.621	48271	8	2.386	7.648	48343	20	16.768	9.656	48415	23	2.272	13.682
48128	10	10.026	1.627	48200	29	14.268	4.788	48272	13	2.558	7.387	48344	28	20.124	9.048	48416*	82	6.174	13.367
48129	12	10.420	1.662	48201	15	14.950	4.966	48273	25	2.756	7.590	48345	10	20.376	9.858	48417	29	6.890	13.790
48130	16	13.296	1.093	48202	10	15.606	4.406	48274	8	3.178	7.430	48346	12	21.864	9.622	48418	8	12.028	13.330
48131	11	16.739	1.224	48203	14	15.670	4.830	48275	9	3.306	7.282	48347	10	22.128	9.558	48419	14	14.302	13.822
48132	25	17.196	1.130	48204	22	17.854	4.864	48276	8	3.308	7.458	48348	8	23.498	9.800	48420	25	14.656	13.494
48133	23	17.214	1.394	48205	11	17.880	4.817	48277	10	4.354	7.546	48349	8	23.584	9.767	48421	10	16.408	13.218
48134	12	19.836	1.382	48206	21	19.500	4.638	48278	27	4.594	7.259	48350	21	24.012	9.062	48422	8	16.444	13.668
48135	14	1.062	2.398	48207	16	19.584	4.380	48279	10	4.740	7.804	48351	29	25.928	9.683	48423	14	17.310	13.464
48136	18	1.449	2.935	48208	24	20.406	4.376	48280	8	5.028	7.654	48352	10	0.575	10.589	48424	8	19.788	13.252
48137	30	3.757	2.699	48209	11	20.849	4.379	48281	20	6.156	7.500	48353*	59	4.270	10.828	48425*	76	19.918	13.208
48138	17	5.138	2.974	48210	10	21.050	4.950	48282	10	8.124	7.680	48354	9	4.990	10.788	48426	11	20.750	13.900
48139	27	5.460	2.116	48211	25	21.764	4.530	48283	16	8.923	7.769	48355	12	7.232	10.281	48427	8	20.864	13.260
48140	37	5.620	2.114	48212	10	22.792	4.434	48284	16	9.123	7.058	48356	28	8.688	10.890	48428	10	21.108	13.120
48141	10	5.758	2.799	48213	22	23.033	4.006	48285	9	10.652	7.678	48357	10	9.100	10.240	48429	9	21.399	13.838
48142	16	7.924	2.421	48214	12	24.347	4.880	48286	14	10.700	7.594	48358	29	9.482	10.488	48430	10	21.562	13.814
48143	9	8.824	2.146	48215	10	24.960	4.055	48287	8	10.960	7.158	48359	12	9.604	10.815	48431	22	22.050	13.440
48144	18	9.406	2.047	48216	28	2.024	5.757	48288	18	13.715	7.555	48360	9	14.272	10.820	48432	23	22.168	13.408
48145	8	11.307	2.664	48217	8	3.106	5.562	48289	11	14.168	7.648	48361	14	15.358	10.038	48433	13	3.020	14.771
48146	33	12.344	2.026	48218	11	3.168	5.970	48290	8	16.382	7.534	48362	12	15.470	10.625	48434	22	3.890	14.642
48147	8	12.900	2.055	48219	21	3.412	5.804	48291	33	17.322	7.170	48363	12	17.663	10.202	48435	32	4.708	14.012
48148	18	14.141	2.451	48220	8	4.083	5.270	48292	9	18.782	7.930	48364	8	17.946	10.482	48436	9	9.918	14.662
48149	10	14.604	2.031	48221	9	5.102	5.852	48293	17	18.976	7.507	48365	13	18.737	10.036	48437	15	13.536	14.890
48150	14	15.672	2.567	48222	21	5.596	5.928	48294	15	19.632	7.418	48366	8	19.204	10.190	48438	17	15.390	14.338
48151	8	15.739	2.086	48223	12	6.730	5.663	48295	14	20.743	7.722	48367	12	20.490	10.893	48439	11	16.535	14.138
48152	31	17.400	2.156	48224	8	8.744	5.487	48296	24	20.806	7.248	48368	8	20.787	10.330	48440	8	17.492	14.753
48153	23	18.280	2.614	48225	34	9.632	5.955	48297	17	21.470	7.437	48369	10	21.581	10.929	48441	20	18.957	14.340
48154	34	19.239	2.474	48226	16	10.135	5.251	48298	14	22.136	7.490	48370	28	22.418	10.848	48442	13	19.180	14.538
48155	10	23.440	2.774	48227	27	11.702	5.760	48299	31	22.327	7.042	48371	10	22.720	10.784	48443	8	20.418	14.168
48156	23	23.520	2.935	48228	19	12.421	5.143	48300	18	22.384	7.948	48372	8	24.044	10.534	48444	33	21.631	14.408
48157	11	23.650	2.035	48229	14	12.847	5.838	48301	9	22.476	7.628	48373	9	25.570	10.482	48445	14	22.868	14.064
48158	13	24.299	2.498	48230	20	15.248	5.324	48302	12	22.771	7.737	48374	10	25.639	10.841	48446	25	23.759	14.578
48159	43	0.082	3.194	48231	13	15.250	5.832	48303	11	23.026	7.912	48375	10	25.838	10.499	48447	9	0.972	15.328
48160	8	0.940	3.512	48232	10	16.167	5.900	48304	17	23.830	7.444	48376	10	3.141	11.705	48448	19	1.676	15.798
48161	8	1.295	3.694	48233	20	16.648	5.008	48305	8	24.270	7.270	48377	16	3.335	11.450	48449	9	2.239	15.836
48162	10	2.384	3.056	48234	8	16.800	5.698	48306	18	1.226	8.708	48378	14	3.977	11.310	48450	8	2.718	15.913
48163	8	2.480	3.648	48235	12	18.720	5.818	48307	39	3.053	8.676	48379	10	4.037	11.732	48451	12	4.890	15.740
48164	29	2.799	3.455	48236	9	18.735	5.634	48308	8	3.696	8.610	48380	8	5.059	11.501	48452	29	6.644	15.742
48165	8	2.831	3.865	48237	8	18.804	5.612	48309	12	4.337	8.648	48381	33	7.178	11.672	48453	8	7.719	15.448
48166	21	2.884	3.360	48238	9	20.098	5.201	48310	8	5.248	8.890	48382	13	8.723	11.512	48454	15	7.854	15.600
48167	13	3.978	3.207	48239	12	20.609	5.698	48311	26	10.418	8.480	48383	9	9.614	11.770	48455*	42	8.014	15.520
48168	30	6.690	3.815	48240	13	21.862	5.238	48312	10	11.769	8.192	48384	17	11.893	11.932	48456	10	8.208	15.663
48169	24	7.463	3.025	48241	13	21.880	5.932	48313	10	11.893	8.148	48385	8	15.202	11.424	48457	9	8.858	15.772
48170	10	8.428	3.157	48242	8	22.180	5.475	48314	11	11.992	8.378	48386	26	18.850	11.150	48458	32	10.296	15.289
48171*	29	8.742	3.888	48243	10	22.352	5.578	48315	20	14.752	8.248	48387	15	21.274	11.825	48459	13	13.086	15.395
48172	14	12.155	3.700	48244	28	23.432	5.657	48316	8	15.563	8.175	48388	11	22.782	11.344	48460	11	14.795	15.631
48173	11	12.421	3.707	48245	32	23.450	5.620	48317	12	16.544	8.950	48389	14	23.068	11.176	48461	8	15.738	15.770
48174	10	13.040	3.238	48246*	43	24.402	5.306	48318	10	16.560	8.568	48390	23	24.037	11.290	48462	10	18.453	15.258
48175	12	13.086	3.683	48247	8	25.584	5.529	48319	9	16.916	8.168	48391	33	24.618	11.708	48463	8	20.342	15.770
48176	13	13.259	3.417	48248	21	1.618	6.461	48320	29	18.005	8.686	48392	15	24.623	11.478	48464	9	21.776	15.559
48177	23	14.436	3.369	48249	25	1.795	6.244	48321	14	20.206	8.945	48393	8	24.702	11.190	48465	8	21.777	15.760
48178	8	14.849	3.226	48250	17	2.352	6.571	48322	32	20.340	8.208	48394	16	24.802	11.243	48466	10	22.732	15.774
48179	22	15.616	3.728	48251	13	2.386	6.680	48323	8	22.383	8.480	48395	9	25.100	11.177	48467	22	23.698	15.273
48180*	58	15.938	3.432	48252	9	2.712	6.296	48324	40	22.706	8.352	48396	8	25.218	11.299	48468	20	24.673	15.550
48181	8	16.206	3.027	48253	8	3.422	6.912	48325	10	23.456	8.854	48397	9	2.192	12.910	48469	8	25.180	15.240
48182	10	16.256	3.634	48254	26	9.801	6.321	48326	34	23.498	8.804	48398	19	2.486	12.250	48470	12	25.650	15.266
48183	10	17.562	3.065	48255	13	9.954	6.784	48327	8	24.114	8.411	48399	8	2.662	12.060	48471	8	0.468	16.048
48184	26	19.728	3.																

48481	8	9.462	16.750	48553	30	24.130	19.151	48625	8	19.420	23.126	48756	9	25.989	2.821
48482	16	14.676	16.278	48554	28	24.689	19.658	48626	30	20.950	23.548	48757	13	1.196	3.224
48483	10	14.764	16.070	48555	11	0.128	20.245	48627	8	23.234	23.406	48758	8	3.140	3.558
48484	12	15.444	16.589	48556	17	2.673	20.941	48628	11	23.784	23.619	48759	8	3.691	3.776
48485	22	15.744	16.855	48557	23	4.980	20.121	48629	8	25.102	23.597	48760	10	4.583	3.729
48486	22	17.210	16.394	48558	8	5.430	20.441	48630	8	25.284	23.438	48761	10	5.924	3.305
48487	8	18.554	16.562	48559	21	6.148	20.576	48631	44	25.741	23.756	48762	8	6.174	3.106
48488	8	20.022	16.078	48560	10	7.043	20.722	48632	8	1.064	24.430	48763	19	6.765	3.508
48489	13	20.056	16.353	48561	19	10.930	20.498	48633	8	5.372	24.140	48764	8	7.494	3.142
48490	20	22.776	16.954	48562	12	14.601	20.558	48634	26	7.577	24.611	48765	16	10.752	3.504
48491	10	24.033	16.926	48563	14	14.774	20.993	48635	13	8.453	24.308	48766*	45	10.771	3.954
48492	16	24.415	16.446	48564	21	16.454	20.688	48636	8	10.470	24.362	48767	8	11.254	3.244
48493	13	24.507	16.307	48565	10	16.493	20.758	48637	11	10.782	24.700	48768	9	11.598	3.167
48494	13	24.643	16.068	48566	9	16.694	20.314	48638	22	11.480	24.472	48769	21	12.612	3.408
48495	8	25.946	16.417	48567*	46	17.837	20.619	48639	8	12.405	24.512	48770	8	13.508	3.577
48496	9	1.647	17.310	48568	21	19.682	20.358	48640	9	12.710	24.438	48771	10	15.608	3.459
48497	11	2.304	17.820	48569	11	20.248	20.902	48641	12	13.249	24.158	48772	8	16.234	3.065
48498	22	3.206	17.457	48570	8	20.746	20.062	48642	33	14.126	24.372	48773	8	17.328	3.964
48499	12	3.508	17.602	48571	27	21.300	20.854	48643	8	16.318	24.620	48774	8	18.036	3.691
48500	10	6.096	17.132	48572	8	22.160	20.102	48644	14	17.108	24.564	48775	8	18.946	3.156
48501	8	9.898	17.206	48573	21	22.748	20.367	48645	19	18.047	24.752	48776	9	21.686	3.860
48502	9	12.589	17.226	48574	8	22.748	20.125	48646	16	18.830	24.454	48777	13	22.288	3.313
48503	13	16.224	17.606	48575	8	23.354	20.764	48647	22	19.338	24.481	48778	11	22.500	3.355
48504	16	17.290	17.042	48576	10	23.428	20.904	48648	11	19.760	24.878	48779	8	23.405	3.530
48505	11	17.435	17.370	48577	12	23.512	20.500	48649	12	20.616	24.673	48780	9	23.564	3.819
48506	9	17.582	17.831	48578	24	24.392	20.071	48650	16	21.073	24.785	48781	28	23.880	3.458
48507	9	17.594	17.192	48579	27	25.182	20.830	48651	17	21.346	24.258	48782	13	25.033	3.232
48508	10	19.042	17.178	48580	11	7.606	21.566	48652	32	22.103	24.596	48783	15	0.724	4.300
48509	21	19.602	17.928	48581	10	9.230	21.768	48653	8	24.032	24.156	48784*	32	1.407	4.096
48510	16	21.422	17.058	48582	8	12.926	21.560	48654	26	24.354	24.664	48785	8	2.648	4.325
48511	11	22.421	17.792	48583	8	13.554	21.157	48655	10	24.662	24.206	48786	8	3.812	4.598
48512	12	24.010	17.960	48584	30	14.912	21.420	48656	15	25.550	24.982	48787	22	7.366	4.208
48513	13	24.798	17.539	48585	14	15.268	21.155	48657	10	25.723	24.210	48788	8	7.724	4.657
48514	45	25.100	17.617	48586	15	15.410	21.130	48658	10	25.846	24.854	48789	8	9.598	4.834
48515*	43	1.458	18.386	48587	10	15.866	21.476	48659	8	1.183	25.530	48790	8	10.587	4.824
48516	17	2.456	18.246	48588	10	16.526	21.196	48660	19	6.720	25.318	48791	8	17.052	4.514
48517	11	2.488	18.342	48589	33	19.508	21.934	48661	15	6.822	25.468	48792	8	19.600	4.818
48518	21	2.614	18.119	48590	9	22.303	21.736	48662	10	8.162	25.810	48793	29	20.889	4.758
48519	10	9.064	18.520	48591	12	23.318	21.952	48663	41	8.356	25.622	48794	8	22.610	4.600
48520	10	9.589	18.063	48592	14	25.856	21.681	48664	14	10.618	25.333	48795	9	23.144	4.702
48521	13	10.200	18.294	48593	11	25.934	21.638	48665	8	12.696	25.308	48796	21	23.633	4.777
48522	8	10.450	18.630	48594	11	0.842	22.690	48666	10	14.854	25.416	48797	9	24.388	4.933
48523	21	11.148	18.930	48595	11	4.086	22.319	48667	18	16.570	25.242	48798	11	25.257	4.948
48524	10	12.080	18.697	48596	8	4.884	22.444	48668	8	17.100	25.223	48799	21	1.148	5.944
48525	18	15.483	18.724	48597	8	5.746	22.754	48669	13	19.042	25.463	48800	23	1.165	5.908
48526*	40	16.750	18.285	48598	24	6.450	22.652	48670	80	19.656	25.268	48801	8	2.058	5.158
48527	16	18.550	18.150	48599*	40	6.994	22.998	48671	14	21.116	25.704	48802*	43	2.112	5.583
48528	9	19.566	18.118	48600*	33	9.504	22.576	48672	16	21.735	25.479	48803	8	3.770	5.881
48529	17	20.243	18.533	48601	22	9.741	22.908	48673	10	22.352	25.169	48804	9	5.470	5.579
48530	17	21.322	18.938	48602	10	14.680	22.046	48674	15	22.946	25.800	48805	13	6.016	5.978
48531	12	22.392	18.304	48603	11	14.714	22.472	48675	10	23.637	25.222	48806	15	6.135	5.624
48532	15	22.892	18.590	48604*	43	14.900	22.810	48676	28	25.782	25.816	48807	8	7.439	5.804
48533	10	24.021	18.270	48605	14	14.938	22.070	48677	21	25.892	25.889	48808*	34	8.184	5.829
48534	8	24.821	18.866	48606	8	16.443	22.360					48809	22	8.284	5.202
48535	10	0.312	19.590	48607*	46	22.554	22.420					48810	10	9.724	5.794
48536	13	0.640	19.120	48608	25	22.780	22.970					48811	10	12.874	5.614
48537	16	2.542	19.880	48609	14	23.049	22.295					48812	24	12.950	5.738
48538	11	3.172	19.972	48610	10	25.422	22.504					48813	8	13.384	5.714
48539	19	4.086	19.200	48611	8	25.630	22.889					48814	10	15.024	5.173
48540	9	6.484	19.580	48612	9	1.348	23.146					48815	9	15.900	5.382
48541	9	7.978	19.370	48613	20	1.480	23.276					48816	9	16.380	5.553
48542	8	8.746	19.780	48614	20	6.090	23.762					48817	44	17.240	5.380
48543	8	9.055	19.414	48615	8	10.579	23.508					48818	8	18.284	5.458
48544	13	9.968													

48828	11	23.666	5.107	48900	23	20.626	8.196	48972	11	21.457	11.202	49044	21	22.139	14.722	49116	8	17.530	17.854
48829	8	24.294	5.438	48901	21	21.980	8.343	48973	10	22.090	11.516	49045	8	23.231	14.831	49117	11	18.250	17.014
48830	8	24.508	5.316	48902	18	22.072	8.508	48974	8	22.731	11.224	49046	16	24.489	14.058	49118	8	19.535	17.476
48831	8	24.896	5.773	48903	26	23.930	8.664	48975	8	23.485	11.282	49047	12	25.181	14.752	49119	21	20.321	17.194
48832	8	25.340	5.874	48904	8	25.280	8.664	48976	8	23.614	11.218	49048	10	25.490	14.420	49120	8	21.100	17.122
48833	9	25.474	5.494	48905	8	0.801	9.408	48977	10	23.753	11.926	49049	9	25.515	14.810	49121	10	23.050	17.796
48834	31	25.790	5.765	48906	26	1.260	9.092	48978	38	24.174	11.008	49050	13	1.560	15.560	49122	11	24.272	17.036
48835	55	0.172	6.431	48907	13	1.780	9.344	48979	10	25.172	11.424	49051	8	1.840	15.580	49123	11	24.513	17.321
48836	10	1.545	6.431	48908	18	3.706	9.936	48980	8	1.425	12.668	49052	9	2.539	15.820	49124	9	25.038	17.756
48837	9	2.402	6.782	48909	8	4.204	9.631	48981	8	1.566	12.336	49053	8	3.044	15.503	49125	8	25.794	17.012
48838	14	6.306	6.196	48910	39	4.273	9.822	48982	18	2.522	12.322	49054	8	3.511	15.520	49126	10	25.914	17.521
48839	17	7.320	6.033	48911	10	5.839	9.020	48983	16	3.952	12.253	49055*	43	5.293	15.856	49127	8	0.299	18.610
48840	13	8.854	6.816	48912	8	9.516	9.252	48984	8	4.202	12.290	49056	13	5.316	15.846	49128	8	0.320	18.094
48841	18	13.005	6.840	48913	8	11.123	9.863	48985	16	4.724	12.493	49057	8	5.624	15.172	49129	8	0.802	18.885
48842	10	15.722	6.678	48914	35	14.612	9.820	48986	19	5.819	12.962	49058	10	5.822	15.074	49130	8	1.913	18.240
48843	10	16.248	6.294	48915	35	15.507	9.584	48987	13	7.248	12.759	49059	19	5.964	15.437	49131	8	1.928	18.548
48844	8	17.540	6.546	48916*	27	16.042	9.798	48988	11	8.226	12.410	49060	15	7.876	15.536	49132	24	4.431	18.350
48845	18	18.066	6.533	48917	16	16.186	9.016	48989	8	8.292	12.634	49061	8	8.519	15.394	49133	8	5.758	18.800
48846	11	18.300	6.534	48918	8	16.377	9.584	48990	9	9.822	12.736	49062	35	8.934	15.994	49134	10	6.489	18.637
48847	8	18.406	6.196	48919	34	17.592	9.716	48991	10	10.292	12.664	49063	28	9.771	15.941	49135	10	7.602	18.450
48848	11	18.880	6.367	48920	8	18.428	9.634	48992	19	10.630	12.098	49064*	33	13.712	15.426	49136	11	7.778	18.777
48849	9	18.926	6.190	48921*	36	19.240	9.884	48993	8	15.451	12.741	49065	8	14.866	15.905	49137	10	8.674	18.740
48850	8	19.176	6.320	48922	14	19.257	9.990	48994	10	18.646	12.886	49066	10	19.362	15.350	49138	8	9.578	18.470
48851	14	21.638	6.656	48923	8	20.067	9.626	48995	12	19.284	12.935	49067	10	20.046	15.258	49139*	40	9.954	18.232
48852	8	23.364	6.120	48924	50	20.093	9.960	48996	8	21.222	12.220	49068	12	20.200	15.555	49140	19	10.456	18.542
48853	8	25.624	6.122	48925	17	21.534	9.489	48997	8	22.292	12.660	49069	8	20.310	15.522	49141	8	10.457	18.822
48854	23	0.064	7.349	48926	19	21.791	9.476	48998	8	23.168	12.350	49070	22	21.193	15.942	49142	17	12.004	18.740
48855	10	1.572	7.729	48927	23	21.928	9.898	48999	8	23.240	12.886	49071	15	23.540	15.259	49143	8	12.076	18.454
48856	8	4.300	7.942	48928	12	22.520	9.580	49000	8	23.586	12.120	49072	8	24.522	15.932	49144	8	12.679	18.429
48857	14	4.417	7.650	48929	34	22.626	9.632	49001	10	0.002	13.717	49073	8	25.402	15.896	49145	9	13.148	18.410
48858	10	5.478	7.485	48930	10	22.995	9.218	49002	10	2.174	13.071	49074	16	25.428	15.190	49146	8	16.148	18.540
48859	8	6.043	7.040	48931	10	23.148	9.966	49003	20	4.126	13.132	49075	8	2.296	16.720	49147	12	17.130	18.664
48860	10	6.134	7.532	48932	14	23.642	9.469	49004	8	7.173	13.742	49076	8	2.382	16.577	49148	38	17.908	18.836
48861	31	6.540	7.084	48933	8	23.692	9.094	49005	8	7.364	13.152	49077	8	2.518	16.340	49149*	48	18.126	18.878
48862	8	7.123	7.484	48934	22	24.595	9.901	49006	14	8.016	13.146	49078	10	6.039	16.165	49150	10	18.443	18.726
48863	10	7.197	7.610	48935	25	25.386	9.772	49007	10	10.626	13.769	49079	33	8.556	16.839	49151	8	20.866	18.922
48864	31	8.802	7.830	48936	8	3.625	10.752	49008*	41	11.050	13.464	49080	10	8.866	16.774	49152	8	21.374	18.101
48865	10	13.744	7.890	48937	11	3.894	10.574	49009	53	11.540	13.112	49081	10	14.310	16.542	49153	8	22.063	18.094
48866	8	15.067	7.526	48938	11	5.490	10.848	49010	8	12.700	13.796	49082	8	15.950	16.150	49154	51	22.203	18.423
48867	10	15.096	7.238	48939	10	6.448	10.940	49011	17	16.566	13.660	49083	8	15.970	16.298	49155	8	22.806	18.790
48868	8	16.473	7.258	48940	10	7.650	10.218	49012	26	17.790	13.116	49084	9	16.014	16.310	49156	8	22.938	18.265
48869	14	18.098	7.526	48941	38	8.785	10.760	49013	8	18.545	13.248	49085	8	16.503	16.532	49157	8	24.884	18.156
48870	12	20.864	7.012	48942	8	8.882	10.946	49014	27	20.598	13.895	49086	10	17.106	16.278	49158	8	25.052	18.853
48871	10	20.927	7.855	48943	8	10.104	10.869	49015	8	20.812	13.918	49087	8	17.113	16.040	49159	13	25.742	18.429
48872	10	21.796	7.582	48944	8	14.562	10.827	49016	8	20.920	13.128	49088	12	18.396	16.344	49160	8	2.040	19.684
48873	11	23.080	7.924	48945	38	16.573	10.230	49017	8	21.112	13.360	49089	8	18.830	16.194	49161	19	2.050	19.430
48874	8	23.310	7.499	48946	13	17.938	10.590	49018	8	21.810	13.714	49090	8	19.800	16.056	49162	15	2.616	19.928
48875	8	24.085	7.594	48947	11	20.114	10.819	49019*	74	21.828	13.276	49091	10	19.913	16.356	49163	8	4.608	19.902
48876	15	24.505	7.027	48948	13	21.299	10.862	49020*	35	21.830	13.594	49092	8	20.030	16.898	49164	8	5.608	19.964
48877	10	25.780	7.864	48949	8	23.120	10.527	49021	10	23.008	13.500	49093	9	20.920	16.410	49165	10	7.422	19.835
48878	9	0.136	8.254	48950	10	24.792	10.763	49022	33	25.436	13.052	49094	21	21.075	16.428	49166	17	7.948	19.958
48879	8	0.146	8.782	48951	12	25.208	10.033	49023	9	0.712	14.360	49095	25	21.084	16.200	49167	15	8.028	19.689
48880	33	0.461	8.652	48952	58	25.392	10.581	49024	12	1.611	14.862	49096	14	21.482	16.822	49168	8	8.324	19.652
48881	8	0.518	8.035	48953	19	0.214	11.152	49025	12	4.942	14.366	49097	10	21.562	16.031	49169	12	8.736	19.239
48882	8	0.774	8.210	48954	8	0.865	11.467	49026	39	5.007	14.636	49098	10	21.886	16.455	49170	13	8.950	19.498
48883	12	2.321	8.878	48955	10	1.836	11.570	49027*	41	6.790	14.811	49099	8	22.166	16.873	49171	11	9.019	19.675
48884	8	5.853	8.470	48956	8	2.428	11.750	49028	42	8.610	14.927	49100	8	23.688	16.166	49172	12	9.106	19.530
48885	12	6.290	8.092	48957	26	2.426	11.978	49029	8	9.716	14.490	49101	12	0.662	17.253	49173	26	10.438	19.750
48886	8	6.325	8.504	48958	9	2.606	11.514	49030*	48	11.410	14.784	49102	8	2.693	17.804	49174	8	11.880	19.644
48887	10	8.290	8.616	48959	8	2.903	11.440	49031	8	12.343	14.088	49103*	40	2.996	17.882	49175	29	12.238	19.173
48888	15	8.554	8.368	48960	8	6.680	11.985	49032*	38	14.078	14.436	49104	8	5.970	17.560	49176	8	12.552	19.568
48889	11	10.770	8.670	48961	12	6.851	11.896	49033	8	15.542	14.600	49105	10	6.426	17.749	49177	9	13.802	19.968
48890	8	10.922	8.894	48962	8	8.787	11.164	49034	19	15.731	14.009	49106	8	6.455	17.172	49178	11	13.892	19.38

49188	8	0.009	20.408	49260	44	0.520	22.724	49332	9	9.420	23.382	49404	42	10.926	24.703
49189	14	0.686	20.665	49261	8	1.018	22.586	49333	10	9.443	23.732	49405	36	10.936	24.324
49190	9	1.452	20.790	49262	8	1.282	22.240	49334	8	9.594	23.047	49406	8	11.069	24.074
49191	13	2.327	20.345	49263	8	3.394	22.766	49335	8	9.848	23.288	49407	27	11.091	24.414
49192	12	4.918	20.430	49264	10	4.429	22.238	49336	22	9.918	23.789	49408	14	11.393	24.648
49193	31	6.256	20.693	49265	8	5.036	22.240	49337	32	10.006	23.496	49409	8	11.397	24.477
49194	18	6.336	20.456	49266	12	5.577	22.884	49338	40	10.128	23.834	49410	21	11.654	24.672
49195	10	6.482	20.908	49267	8	6.157	22.872	49339	12	10.137	23.420	49411	9	11.712	24.005
49196	42	6.506	20.738	49268	8	6.362	22.958	49340	10	10.160	23.376	49412	9	11.742	24.350
49197	8	6.708	20.786	49269	8	8.065	22.170	49341	22	10.250	23.560	49413	23	11.829	24.904
49198	10	7.285	20.794	49270	8	8.182	22.966	49342	9	10.262	23.886	49414	15	12.127	24.326
49199	13	8.036	20.446	49271	8	8.338	22.212	49343*	42	10.472	23.580	49415	20	12.300	24.337
49200	8	8.117	20.822	49272	13	8.683	22.541	49344	24	10.492	23.082	49416	10	12.339	24.044
49201	11	8.432	20.638	49273	11	8.831	22.662	49345	8	10.547	23.866	49417	38	12.505	24.245
49202	10	10.278	20.703	49274	10	9.026	22.754	49346	42	10.652	23.525	49418	10	12.583	24.974
49203	13	10.616	20.949	49275	9	9.056	22.850	49347	19	10.694	23.120	49419	17	12.760	24.590
49204	10	10.724	20.004	49276	40	9.732	22.279	49348	33	10.734	23.966	49420	8	13.170	24.593
49205	17	10.820	20.773	49277	8	10.059	22.560	49349	11	11.086	23.142	49421	9	13.212	24.810
49206	14	10.871	20.246	49278	10	10.147	22.824	49350	32	11.261	23.934	49422	8	15.195	24.194
49207	8	11.408	20.498	49279	11	10.258	22.032	49351	34	11.362	23.850	49423	24	15.384	24.564
49208*	48	11.858	20.400	49280	9	10.440	22.127	49352	38	11.459	23.652	49424	11	16.035	24.950
49209	11	12.007	20.508	49281	20	10.668	22.730	49353	9	11.510	23.762	49425	14	16.176	24.890
49210	16	12.752	20.070	49282	41	10.790	22.493	49354	14	11.682	23.856	49426	8	17.714	24.406
49211	26	12.856	20.394	49283	25	10.886	22.466	49355	10	11.794	23.622	49427	14	18.892	24.550
49212	26	12.892	20.809	49284	11	10.941	22.312	49356	58	11.800	23.400	49428	15	20.978	24.684
49213	13	13.432	20.176	49285	10	11.050	22.712	49357	12	12.106	23.460	49429	8	24.784	24.930
49214	30	13.804	20.843	49286	8	11.334	22.343	49358	8	12.560	23.088	49430	8	0.366	25.474
49215	17	14.856	20.895	49287	13	11.354	22.112	49359	25	13.087	23.008	49431	10	3.563	25.238
49216	8	15.651	20.649	49288	8	11.384	22.800	49360	39	13.516	23.134	49432	8	3.858	25.107
49217	13	18.556	20.344	49289	33	11.489	22.942	49361	8	15.583	23.434	49433	8	4.158	25.221
49218	9	20.812	20.330	49290	8	11.551	22.622	49362	10	15.614	23.490	49434	38	4.372	25.980
49219	18	20.964	20.432	49291	13	11.686	22.373	49363	11	16.064	23.516	49435	12	4.926	25.338
49220	8	22.314	20.802	49292	27	11.724	22.913	49364	10	16.306	23.265	49436	8	5.111	25.971
49221	8	23.222	20.724	49293	36	11.752	22.185	49365	10	17.740	23.136	49437	9	5.540	25.136
49222	8	23.612	20.994	49294	16	11.802	22.268	49366	8	18.366	23.897	49438	16	6.534	25.825
49223	16	3.130	21.092	49295	12	11.834	22.356	49367	53	21.264	23.737	49439	8	6.812	25.416
49224	8	3.814	21.932	49296	10	11.988	22.147	49368	38	23.262	23.917	49440	33	6.920	25.195
49225	8	3.894	21.889	49297	23	12.038	22.421	49369	23	0.108	24.904	49441	10	7.070	25.868
49226	9	4.006	21.336	49298	32	12.158	22.100	49370	14	2.360	24.936	49442	9	7.768	25.014
49227	10	5.040	21.269	49299	10	12.346	22.150	49371	9	3.722	24.460	49443	20	7.826	25.659
49228	20	5.341	21.614	49300	10	12.384	22.016	49372*	42	3.730	24.008	49444	10	8.697	25.110
49229	9	6.044	21.652	49301	8	13.814	22.100	49373	8	4.288	24.927	49445	33	8.890	25.873
49230	9	7.238	21.435	49302	8	13.841	22.729	49374	13	5.663	24.315	49446	25	9.166	25.808
49231*	108	7.574	21.810	49303	8	13.874	22.388	49375	10	6.526	24.690	49447	10	9.228	25.087
49232	10	7.818	21.410	49304	16	15.304	22.492	49376	12	6.950	24.186	49448	31	9.394	25.084
49233	22	8.154	21.400	49305	8	15.670	22.810	49377	8	7.178	24.138	49449	12	9.430	25.035
49234	8	10.100	21.486	49306	8	15.778	22.548	49378	8	7.481	24.681	49450	33	9.544	25.194
49235	8	10.140	21.745	49307	21	16.069	22.872	49379*	39	7.489	24.266	49451	31	9.726	25.805
49236	8	10.316	21.114	49308	17	17.109	22.066	49380	13	7.984	24.774	49452	10	9.737	25.062
49237	9	10.602	21.068	49309	19	17.578	22.196	49381	9	8.358	24.057	49453	19	9.880	25.660
49238	20	11.208	21.047	49310	30	17.630	22.475	49382*	44	8.400	24.789	49454	41	10.179	25.014
49239	9	11.930	21.668	49311	8	17.866	22.941	49383	32	8.520	24.452	49455	32	10.366	25.164
49240	20	12.180	21.885	49312*	40	18.412	22.050	49384	8	8.600	24.411	49456	27	10.490	25.930
49241	10	12.424	21.265	49313	10	19.582	22.552	49385	14	8.720	24.457	49457	10	10.500	25.112
49242	14	12.685	21.907	49314	10	19.735	22.139	49386	27	9.029	24.642	49458	25	10.688	25.188
49243	10	12.786	21.985	49315	10	21.598	22.536	49387	15	9.225	24.120	49459	36	10.954	25.180
49244	13	13.175	21.637	49316	8	22.260	22.329	49388	38	9.434	24.335	49460	9	10.978	25.222
49245	17	14.108	21.190	49317	36	23.386	22.096	49389	33	9.812	24.622	49461	8	11.156	25.450
49246	15	14.538	21.827	49318	8	24.825	22.664	49390	34	9.862	24.850	49462	10	11.267	25.447
49247*	45	15.376	21.232	49319	8	24.901	22.883	49391	13	9.953	24.757	49463	8	11.597	25.236
49248	8	16.557	21.366	49320	15	0.760	23.268	49392	10	10.210	24.677	49464	12	11.670	25.620
49249	8	17.311	21.804	49321	8	5.614	23.890	49393	28	10.220	24.130	49465	41	12.335	25.750
49250	11	17.782	21.362	49322	13	5.764	23.690	49394	17	10.270	24.256	49466	12	12.336	25.876
49251	8	17.954	21.575	49323	11	6.306	23.886	49395	11	10.368	24.086	49467	13	12.436	25.219
49252	12	18.398	21.983	49324	10	6.550	23.132	49396	32	10.419	24.539	49468	8	12.515	25.049
49253	10	19.501	21.416	49325	20	6.935	23.942	49397	26	10.460	24.705	49469	8	15.133	25.480
49254	9	19.780	21.240	49326	10	7.288	23.762	49398	11	10.466	24.690	49470	15	15.246	25.420
49255	39	21.100	21.246	49327	14	7.452	23.727	49399	25	10.492	24.270	49471	9	17.156	25.344
49256	20	21.134	21.022	49328	10	9.126	23.733	49400	20	10.522	24.070	49472	12	18.185	25.178
49257	22	22.352	21.580	49329	8	9.093	23.104	49401	34	10.648	24.800	49473	25	18.836	25.683
49258	20	23.244	21.548	49330	23	9.326	23.440	49402	24	10.768	24.078	49474	80	24.060	25.370
49259	15	25.332	21.880	49331	34	9.383	23.144	49403	13	10.843	24.188				

R.A. 18^h 0^m

Plate 762; 1916 Sept. 2.

Provisional Constants.

A	B	C
-0.2556	+0.0709	+0.0904

D	E	F
-0.0693	-0.2568	-0.4298

Mag. = 16.2 - 1.05√d

No.	d	x	y
49501	14	0.235	0.746
49502	33	0.604	0.696
49503	9	1.118	0.985
49504	23	2.431	0.833
49505	8	2.667	0.396
49506	42	3.338	0.269
49507	10	4.961	0.777
49508	8	4.986	0.91

49556	8	5.134	1.702	49628	11	22.076	2.433	49700*	75	8.711	4.676	49772	13	4.520	6.699	49844	10	2.946	8.478
49557	40	6.252	1.479	49629	10	22.718	2.919	49701	11	9.954	4.590	49773	8	4.586	6.074	49845	25	4.606	8.854
49558	10	7.651	1.512	49630	36	23.076	2.940	49702	14	10.566	4.555	49774	10	4.866	6.038	49846	9	4.710	8.251
49559	8	7.881	1.168	49631	8	23.588	2.895	49703	8	11.118	4.856	49775	9	7.112	6.358	49847	8	5.576	8.536
49560	8	8.298	1.644	49632	8	23.724	2.128	49704	9	12.535	4.202	49776	8	9.209	6.802	49848	9	6.077	8.181
49561	8	8.408	1.022	49633	11	23.968	2.561	49705	21	13.508	4.825	49777	20	11.092	6.298	49849	8	6.410	8.764
49562	15	8.588	1.623	49634	8	24.204	2.459	49706	14	14.656	4.253	49778	8	11.754	6.797	49850	10	11.268	8.050
49563	12	8.760	1.684	49635	10	24.212	2.505	49707	11	17.332	4.730	49779	9	12.454	6.254	49851	9	12.648	8.204
49564	10	8.810	1.142	49636	10	24.636	2.512	49708	9	17.440	4.643	49780	10	12.634	6.165	49852	8	12.682	8.826
49565	10	9.587	1.348	49637	8	24.744	2.563	49709	10	18.343	4.645	49781	24	13.122	6.634	49853	9	13.276	8.216
49566	18	10.550	1.794	49638	9	25.564	2.663	49710	8	18.382	4.799	49782	9	14.388	6.486	49854	16	15.039	8.433
49567	8	11.285	1.354	49639	14	25.760	2.972	49711	20	19.516	4.136	49783	8	15.632	6.465	49855	10	16.466	8.185
49568	14	11.625	1.284	49640	11	0.135	3.183	49712	11	19.858	4.359	49784	11	16.342	6.124	49856	12	16.692	8.888
49569	8	11.866	1.520	49641	8	1.040	3.355	49713	10	21.284	4.024	49785	8	17.628	6.852	49857	12	18.156	8.544
49570	8	12.735	1.996	49642	10	1.200	3.643	49714	20	22.845	4.984	49786	32	18.190	6.068	49858	8	18.796	8.650
49571	8	13.516	1.688	49643	8	1.362	3.335	49715	8	23.236	4.595	49787	8	19.245	6.204	49859	20	19.279	8.255
49572	12	13.924	1.261	49644	31	1.514	3.282	49716	13	23.748	4.024	49788	12	19.593	6.444	49860	8	19.558	8.780
49573	9	13.948	1.462	49645	16	2.666	3.047	49717	12	24.292	4.616	49789	10	20.214	6.526	49861	8	19.720	8.371
49574	10	15.162	1.852	49646	8	3.146	3.364	49718	10	24.465	4.356	49790	10	20.950	6.782	49862	10	20.314	8.416
49575	38	16.702	1.177	49647	9	3.375	3.776	49719	10	24.716	4.485	49791	10	21.125	6.872	49863	10	21.124	8.682
49576	10	16.726	1.567	49648	8	3.955	3.425	49720	8	24.969	4.478	49792	8	21.218	6.203	49864	12	21.716	8.926
49577	20	17.010	1.225	49649	10	4.029	3.047	49721	10	1.010	5.946	49793*	44	21.278	6.536	49865	8	22.225	8.466
49578	8	18.229	1.525	49650	22	4.721	3.751	49722	9	1.080	5.576	49794	12	21.832	6.875	49866	8	22.728	8.287
49579	18	18.445	1.280	49651	13	5.086	3.780	49723	10	1.196	5.581	49795	10	22.226	6.602	49867	18	23.556	8.048
49580	10	18.692	1.579	49652	10	5.335	3.902	49724	9	1.938	5.255	49796	24	22.538	6.087	49868	8	24.466	8.895
49581	20	18.838	1.134	49653	8	6.300	3.825	49725	9	1.972	5.823	49797	9	23.461	6.524	49869	8	24.566	8.268
49582	8	18.845	1.584	49654	8	7.264	3.703	49726	8	2.078	5.050	49798*	32	23.532	6.849	49870	12	0.185	9.407
49583	10	18.878	1.540	49655	8	8.834	3.652	49727	10	2.154	5.132	49799	10	23.776	6.232	49871	30	0.291	9.461
49584	11	19.388	1.207	49656	8	9.056	3.197	49728	10	2.545	5.588	49800	23	23.794	6.330	49872	13	0.659	9.046
49585	8	19.504	1.532	49657	11	9.424	3.121	49729	8	2.925	5.375	49801	12	24.181	6.490	49873	10	0.817	9.791
49586	30	21.224	1.955	49658	13	10.334	3.945	49730	8	2.986	5.690	49802	15	24.254	6.592	49874	8	1.276	9.477
49587	23	22.644	1.766	49659	8	11.106	3.293	49731	12	3.121	5.308	49803	31	24.629	6.262	49875	11	1.308	9.293
49588	8	23.020	1.736	49660	8	11.624	3.214	49732	10	3.272	5.936	49804	12	0.737	7.753	49876	25	2.264	9.722
49589	11	23.198	1.729	49661*	35	11.698	3.948	49733	32	3.436	5.581	49805	8	0.965	7.318	49877	8	2.781	9.797
49590	8	24.692	1.735	49662	8	14.058	3.051	49734	10	3.666	5.575	49806	8	1.743	7.415	49878	11	2.878	9.848
49591	10	24.862	1.528	49663	8	15.217	3.868	49735	9	3.740	5.968	49807	8	2.355	7.929	49879	8	2.954	9.623
49592	12	25.653	1.039	49664	25	15.675	3.204	49736*	79	5.206	5.379	49808	9	2.640	7.209	49880	8	3.024	9.088
49593	8	25.775	1.185	49665	8	16.260	3.317	49737	10	6.378	5.486	49809	11	3.437	7.676	49881	20	3.055	9.585
49594	12	25.936	1.730	49666	20	16.745	3.539	49738	24	7.316	5.294	49810	8	4.182	7.123	49882	10	3.989	9.079
49595	9	0.250	2.549	49667	14	17.176	3.151	49739	9	7.875	5.934	49811	11	5.238	7.334	49883	10	4.015	9.716
49596	62	0.407	2.378	49668	8	17.266	3.220	49740	8	8.028	5.855	49812*	80	5.941	7.675	49884	10	5.776	9.621
49597	8	1.647	2.959	49669	8	20.904	3.061	49741	8	8.179	5.280	49813	12	6.397	7.454	49885	9	6.933	9.882
49598	8	1.859	2.592	49670	10	20.953	3.335	49742	9	8.331	5.807	49814	8	6.514	7.100	49886	17	9.178	9.736
49599	16	2.950	2.402	49671	8	22.225	3.006	49743	8	9.648	5.888	49815	8	6.548	7.264	49887	9	9.366	9.006
49600	8	2.957	2.218	49672	10	22.534	3.902	49744	12	9.766	5.404	49816	8	7.194	7.054	49888	8	9.595	9.961
49601*	34	3.114	2.044	49673	8	23.340	3.914	49745	9	9.804	5.528	49817	10	7.476	7.149	49889	25	12.224	9.638
49602	10	3.482	2.673	49674	23	23.994	3.847	49746	10	11.256	5.356	49818	12	8.491	7.854	49890	8	14.270	9.652
49603	12	3.620	2.636	49675*	38	24.795	3.035	49747	8	11.584	5.094	49819	10	10.902	7.284	49891	8	14.590	9.400
49604	31	4.316	2.893	49676	13	24.950	3.972	49748	8	14.785	5.068	49820	32	11.060	7.234	49892	10	14.918	9.896
49605	8	4.668	2.587	49677	8	25.135	3.036	49749	10	15.300	5.473	49821	8	11.060	7.965	49893	8	15.004	9.272
49606	8	5.119	2.508	49678	26	25.335	3.368	49750	8	16.639	5.318	49822	10	13.684	7.066	49894	10	15.202	9.126
49607	8	5.530	2.154	49679	12	25.342	3.698	49751	8	18.161	5.044	49823	8	15.652	7.486	49895	10	15.246	9.828
49608	8	8.844	2.117	49680	12	25.366	3.832	49752	8	18.512	5.216	49824	20	15.672	7.994	49896	8	16.869	9.865
49609	10	9.736	2.085	49681	8	0.040	4.955	49753	8	19.016	5.681	49825	12	16.082	7.387	49897	8	17.066	9.246
49610	8	12.795	2.655	49682	10	0.250	4.428	49754	8	19.128	5.794	49826	9	17.586	7.206	49898	10	17.502	9.615
49611	8	13.340	2.870	49683	10	0.736	4.875	49755	19	19.211	5.370	49827	17	20.178	7.563	49899	10	19.202	9.354
49612	9	13.585	2.341	49684	10	0.785	4.527	49756	11	19.665	5.276	49828	13	21.306	7.000	49900	8	19.710	9.745
49613*	40	14.874	2.902	49685	8	0.876	4.885	49757	10	21.832	5.536	49829	10	21.442	7.483	49901	8	19.824	9.564
49614	13	14.911	2.949	49686	20	1.274	4.600	49758	8	21.929	5.972	49830	11	21.716	7.220	49902*	35	20.306	9.096
49615	10	15.556	2.855	49687	11	1.308	4.928	49759	11	24.522	5.985	49831	10	23.245	7.294	49903	12	24.752	9.652
49616	8	15.763	2.818	49688	13	2.032	4.752	49760	27	24.976	5.916	49832	8	23.489	7.364	49904*	42	24.884	9.202
49617	8	16.728	2.851	49689	11	2.900	4.762	49761	8	25.118	5.837	49833	16	23.891	7.154	49905	22	25.096	9.039
49618	23	16.863	2.970	49690	8	3.354	4.935	49762	17	25.322	5.053	49834	8	24.331	7.574	49906	8	25.247	9.376
49619	14	18.190	2.460	49691	10	3.806	4.085	49763	28	25.461	5.805	49835	8	24.585	7.564	49907	15	25.372	9.235
49620*	83																		

49916	8	4.241	10.815	49988	8	22.412	11.529	50060	12	23.546	13.139	50132	10	21.509	15.246	50204	10	14.700	17.838
49917	10	5.918	10.686	49989	9	23.415	11.950	50061	9	23.638	13.076	50133	29	21.756	15.780	50205	8	15.086	17.075
49918	8	7.378	10.864	49990	10	23.438	11.069	50062	8	23.999	13.426	50134	9	22.452	15.544	50206	11	17.498	17.299
49919	8	7.594	10.276	49991	10	23.760	11.730	50063	10	24.142	13.773	50135	8	22.464	15.608	50207	9	17.866	17.306
49920	10	7.852	10.045	49992	20	24.049	11.804	50064	9	24.157	13.134	50136	8	22.508	15.221	50208	12	18.259	17.187
49921	8	10.084	10.394	49993	14	24.171	11.680	50065	8	24.196	13.546	50137	8	23.116	15.402	50209	14	18.491	17.194
49922	20	12.880	10.269	49994	9	24.430	11.850	50066	8	25.144	13.455	50138	10	23.812	15.336	50210	10	20.846	17.752
49923	17	13.070	10.741	49995	8	24.492	11.543	50067	9	25.222	13.510	50139	16	24.030	15.022	50211	8	21.073	17.138
49924	8	14.514	10.467	49996	10	24.045	11.606	50068	8	25.242	13.867	50140	32	24.336	15.879	50212	26	21.220	17.548
49925	29	14.698	10.877	49997	9	24.901	11.402	50069	10	25.274	13.074	50141	20	24.590	15.974	50213	9	21.244	17.535
49926	10	14.844	10.745	49998	10	25.101	11.546	50070	16	25.506	13.832	50142	8	24.866	15.316	50214	10	21.608	17.552
49927	31	15.221	10.864	49999	10	25.378	11.679	50071	9	25.750	13.386	50143	9	25.255	15.102	50215	40	21.719	17.081
49928	8	16.030	10.226	50000	10	25.594	11.576	50072	10	0.928	14.656	50144	12	25.554	15.689	50216	8	21.794	17.112
49929	8	16.750	10.552	50001	9	0.850	12.174	50073	8	2.614	14.820	50145	9	25.805	15.754	50217	9	22.276	17.496
49930	9	17.030	10.864	50002	8	0.926	12.710	50074	12	2.878	14.568	50146	11	1.982	16.856	50218	8	22.314	17.500
49931	8	17.304	10.790	50003	8	2.794	12.820	50075	10	3.186	14.233	50147	9	3.502	16.826	50219	29	22.499	17.752
49932	9	17.734	10.201	50004	29	3.124	12.866	50076	10	3.214	14.623	50148	10	4.150	16.777	50220	9	22.742	17.514
49933	8	17.887	10.724	50005	8	3.184	12.467	50077	8	4.060	14.710	50149	38	7.702	16.691	50221	12	22.754	17.768
49934	10	18.130	10.721	50006	10	6.210	12.504	50078	8	4.128	14.496	50150	8	8.426	16.321	50222	9	22.943	17.928
49935	8	18.225	10.649	50007	8	6.622	12.586	50079	12	4.457	14.610	50151	11	12.093	16.356	50223	14	23.092	17.604
49936	15	18.454	10.708	50008*	49	6.846	12.769	50080	9	4.516	14.094	50152	18	13.771	16.375	50224	10	23.439	17.836
49937	11	18.839	10.552	50009	10	7.212	12.694	50081	28	5.724	14.592	50153	8	14.025	16.134	50225	11	23.476	17.522
49938	10	18.946	10.852	50010	10	8.752	12.048	50082	8	5.806	14.166	50154	8	14.226	16.344	50226	11	24.063	17.571
49939	8	19.306	10.956	50011	9	8.786	12.874	50083	14	9.026	14.686	50155	12	14.285	16.367	50227	11	24.356	17.384
49940	10	19.716	10.564	50012	20	9.344	12.453	50084	30	9.255	14.855	50156	13	14.755	16.900	50228	9	24.585	17.978
49941	8	20.388	10.840	50013	8	9.717	12.766	50085	8	11.108	14.160	50157	10	18.266	16.144	50229	10	25.696	17.146
49942	8	20.464	10.475	50014	8	10.445	12.960	50086	17	11.124	14.275	50158	8	18.736	16.962	50230	9	25.801	17.155
49943	12	20.785	10.576	50015	20	11.344	12.506	50087	8	11.636	14.030	50159	8	18.760	16.840	50231	8	0.502	18.108
49944	8	20.914	10.515	50016	9	13.228	12.720	50088	8	11.825	14.184	50160	10	18.883	16.390	50232	9	0.526	18.618
49945	9	21.770	10.215	50017	10	14.979	12.084	50089	10	14.141	14.837	50161	11	19.315	16.425	50233	8	0.652	18.091
49946	10	22.149	10.610	50018	9	15.014	12.352	50090	8	15.802	14.728	50162	8	19.383	16.635	50234	10	2.394	18.887
49947	10	22.268	10.330	50019	8	17.014	12.678	50091	12	18.940	14.933	50163	8	19.747	16.116	50235	10	2.776	18.672
49948	10	23.750	10.678	50020	9	17.288	12.959	50092	11	19.341	14.190	50164	12	19.868	16.939	50236	13	3.462	18.238
49949	8	24.447	10.910	50021	10	17.540	12.426	50093	9	19.642	14.156	50165	35	20.555	16.704	50237	10	5.566	18.596
49950	12	25.965	10.864	50022*	36	17.934	12.583	50094	15	22.044	14.161	50166	20	20.626	16.753	50238	10	6.584	18.385
49951	10	0.408	11.048	50023	8	18.064	12.336	50095	10	22.210	14.593	50167	18	21.256	16.173	50239	16	7.459	18.032
49952	8	1.165	11.105	50024	8	18.756	12.916	50096	10	22.472	14.335	50168	12	21.631	16.358	50240*	42	7.531	18.488
49953	9	1.267	11.944	50025	10	18.983	12.098	50097	8	23.150	14.891	50169	9	21.722	16.570	50241	12	7.558	18.476
49954	9	1.294	11.043	50026	9	19.082	12.674	50098	8	23.724	14.286	50170	9	21.912	16.865	50242	10	9.153	18.886
49955	10	1.435	11.747	50027	8	19.240	12.406	50099	11	24.075	14.384	50171	15	22.547	16.674	50243	33	10.032	18.932
49956	8	2.055	11.424	50028	12	19.376	12.052	50100	10	24.980	14.176	50172	10	22.558	16.661	50244	11	10.590	18.504
49957	11	2.854	11.241	50029	22	21.844	12.071	50101	20	25.046	14.320	50173	9	22.979	16.168	50245	10	16.736	18.988
49958	10	5.076	11.324	50030	12	22.294	12.999	50102	45	25.230	14.614	50174	8	23.340	16.404	50246	9	16.746	18.824
49959	8	5.366	11.218	50031	11	24.274	12.387	50103	8	25.691	14.084	50175	16	23.588	16.023	50247	8	17.578	18.376
49960*	40	5.415	11.974	50032	8	24.936	12.225	50104	12	25.694	14.506	50176	9	23.748	16.734	50248	10	17.591	18.049
49961	31	8.322	11.264	50033	8	24.958	12.386	50105	20	25.781	14.516	50177	10	24.029	16.664	50249	8	18.532	18.784
49962	8	11.397	11.554	50034	10	25.152	12.478	50106	8	25.782	14.275	50178	8	24.611	16.596	50250	10	18.926	18.947
49963	8	12.836	11.961	50035	12	25.434	12.496	50107	13	25.826	14.160	50179	10	24.672	16.185	50251	14	19.199	18.808
49964	8	12.996	11.030	50036	16	25.726	12.848	50108	11	25.859	14.299	50180	18	24.714	16.758	50252	9	19.576	18.298
49965	24	13.272	11.024	50037	12	0.699	13.330	50109	17	1.242	15.082	50181	8	24.929	16.458	50253	49	20.025	18.752
49966	8	13.436	11.868	50038	8	1.866	13.982	50110	8	1.391	15.987	50182	11	24.985	16.191	50254	10	20.232	18.216
49967	10	14.125	11.649	50039	18	2.184	13.876	50111	8	2.228	15.755	50183	8	25.061	16.962	50255	8	20.242	18.335
49968	11	15.552	11.482	50040	8	3.361	13.095	50112	8	2.298	15.200	50184	22	25.148	16.408	50256	9	20.774	18.115
49969	18	16.879	11.952	50041*	31	4.928	13.080	50113	10	3.104	15.710	50185	8	25.714	16.102	50257	9	21.448	18.424
49970	8	16.996	11.835	50042	8	6.126	13.262	50114	16	3.128	15.002	50186	13	0.764	17.624	50258	8	21.590	18.554
49971	12	17.651	11.221	50043	12	7.150	13.826	50115	8	3.936	15.754	50187	9	0.784	17.328	50259	8	22.118	18.418
49972	9	18.002	11.864	50044	11	7.340	13.902	50116	10	4.708	15.042	50188	11	2.226	17.142	50260	10	22.556	18.264
49973	8	18.070	11.952	50045	8	8.501	13.485	50117	8	5.230	15.572	50189	9	2.600	17.971	50261	8	23.348	18.362
49974	11	18.585	11.274	50046	8	8.692	13.554	50118	10	5.482	15.461	50190	9	2.753	17.568	50262	10	24.116	18.814
49975	10	18.720	11.999	50047	8	9.687	13.134	50119	8	6.318	15.288	50191	8	3.339	17.075	50263	11	24.445	18.005
49976	8	19.774	11.586	50048	12	9.829	13.407	50120	8	6.909	15.916	50192	8	3.448	17.254	50264	40	25.449	18.161
49977	10	19.935	11.298	50049	12	12.819	13.289	50121*	42	7.101	15.783	50193	11	3.626	17.332	50265	8	25.495	18.840
49978	10	20.407	11.598	50050	14	13.072													

50276	20	13.632	19.355	50348	38	25.938	20.528	50420	8	20.658	22.046	50492	10	7.004	24.574	50564	8	14.110	25.277
50277	10	14.564	19.456	50349	15	0.085	21.412	50421	21	20.802	22.407	50493	10	7.406	24.034	50565	10	14.256	25.505
50278	18	16.240	19.286	50350	8	0.524	21.843	50422	8	21.452	22.685	50494	8	7.998	24.456	50566	10	15.886	25.666
50279	18	16.316	19.447	50351	20	0.977	21.373	50423	8	21.510	22.457	50495	8	8.906	24.556	50567	8	16.175	25.916
50280	8	17.044	19.216	50352	29	1.123	21.919	50424	10	21.686	22.299	50496	8	9.271	24.564	50568	8	16.393	25.430
50281	12	17.258	19.051	50353	13	3.070	21.694	50425	8	21.724	22.885	50497	14	9.630	24.566	50569	13	16.465	25.424
50282	8	18.966	19.224	50354	8	11.848	21.278	50426	8	22.164	22.964	50498*	40	9.900	24.421	50570	8	16.566	25.519
50283	10	19.037	19.144	50355	8	12.067	21.516	50427	11	22.536	22.566	50499	8	11.236	24.521	50571	10	16.786	25.533
50284	11	19.296	19.915	50356	11	12.086	21.907	50428	8	22.614	22.600	50500	8	13.125	24.666	50572	10	17.386	25.847
50285	8	19.806	19.746	50357	8	12.668	21.782	50429	12	22.711	22.721	50501*	40	14.663	24.750	50573	22	18.114	25.734
50286	12	20.749	19.275	50358	20	13.730	21.156	50430	8	23.215	22.476	50502	8	15.284	24.521	50574	8	18.370	25.043
50287	10	20.928	19.608	50359*	38	15.502	21.722	50431	8	23.477	22.965	50503	8	15.337	24.773	50575	10	18.422	25.672
50288	10	21.602	19.300	50360	8	15.575	21.940	50432	72	23.598	22.197	50504	8	15.607	24.171	50576	10	18.890	25.038
50289	8	21.905	19.011	50361	8	17.624	21.640	50433	13	24.351	22.370	50505	10	15.638	24.035	50577	8	18.918	25.942
50290	8	22.074	19.264	50362	10	18.106	21.854	50434	9	24.732	22.251	50506	10	15.964	24.316	50578	18	18.962	25.586
50291	8	22.084	19.201	50363	8	18.336	21.766	50435	8	25.484	22.526	50507	10	16.442	24.506	50579	9	19.007	25.970
50292	8	22.914	19.239	50364	8	19.276	21.476	50436	10	25.529	22.498	50508	10	16.626	24.732	50580	13	19.109	25.520
50293	8	22.945	19.994	50365*	18	19.319	21.474	50437	34	1.010	23.743	50509	10	17.022	24.576	50581	8	19.363	25.727
50294	8	23.540	19.064	50366	8	19.824	21.802	50438	10	4.625	23.093	50510	14	17.056	24.850	50582	18	19.365	25.150
50295	8	23.706	19.898	50367	10	20.207	21.596	50439	8	5.114	23.878	50511	18	18.114	24.788	50583	10	19.738	25.594
50296	8	23.906	19.514	50368	10	20.244	21.002	50440	8	7.726	23.755	50512	8	18.194	24.119	50584	20	19.859	25.674
50297	8	24.166	19.075	50369	8	21.222	21.603	50441	8	7.882	23.775	50513	8	18.653	24.103	50585	10	20.146	25.866
50298	14	24.355	19.614	50370	10	21.749	21.523	50442	8	8.039	23.726	50514	8	18.658	24.527	50586	11	20.254	25.658
50299	10	24.388	19.184	50371	9	22.158	21.574	50443	9	8.138	23.946	50515	10	19.325	24.171	50587	10	20.792	25.164
50300	8	24.463	19.361	50372	18	22.176	21.220	50444	8	8.395	23.584	50516	12	19.364	24.801	50588	15	21.014	25.856
50301	8	24.613	19.758	50373	9	22.652	21.596	50445	14	12.670	23.244	50517	9	19.635	24.826	50589	21	21.055	25.499
50302	8	24.686	19.584	50374	8	23.124	21.200	50446	9	14.324	23.496	50518	8	19.649	24.666	50590	40	22.956	25.386
50303	11	24.914	19.295	50375	8	23.396	21.016	50447	8	15.148	23.093	50519	10	19.688	24.507	50591	27	23.464	25.705
50304	18	24.941	19.180	50376	9	24.320	21.354	50448	14	15.152	23.882	50520	8	19.948	24.606	50592	8	23.735	25.300
50305	8	24.949	19.562	50377	8	24.566	21.633	50449*	60	15.204	23.776	50521	25	20.204	24.516	50593	24	24.596	25.296
50306	8	25.102	19.930	50378	8	24.672	21.256	50450	10	17.190	23.604	50522	8	20.299	24.266	50594	8	25.016	25.842
50307	8	0.041	20.629	50379	9	24.750	21.647	50451	8	17.803	23.553	50523	10	20.324	24.615	50595	9	25.670	25.503
50308	8	0.951	20.551	50380	9	24.999	21.594	50452	14	18.452	23.336	50524	8	20.406	24.905				
50309	10	1.346	20.820	50381	8	25.150	21.455	50453	8	18.999	23.154	50525	10	20.530	24.041				
50310	10	3.386	20.386	50382	10	25.563	21.335	50454	8	19.173	23.227	50526	19	20.726	24.813				
50311	8	4.932	20.958	50383	9	25.867	21.152	50455	9	19.354	23.852	50527	14	20.942	24.934				
50312	10	6.692	20.550	50384	18	25.966	21.080	50456*	35	19.738	23.177	50528	13	21.108	24.398				
50313	10	6.901	20.674	50385	8	0.001	22.161	50457	8	19.790	23.182	50529	8	21.314	24.214				
50314	8	7.575	20.661	50386	10	2.569	22.482	50458	8	20.482	23.698	50530	9	21.324	24.200				
50315	10	7.610	20.744	50387	8	2.646	22.700	50459	8	20.508	23.454	50531	16	21.416	24.622				
50316	20	14.954	20.286	50388	10	4.404	22.133	50460	9	20.772	23.918	50532	8	21.856	24.924				
50317	8	15.225	20.785	50389	8	5.303	22.854	50461	60	21.025	23.720	50533	8	22.043	24.780				
50318	8	15.710	20.302	50390	12	5.426	22.911	50462	32	21.205	23.341	50534	8	22.352	24.675				
50319	8	16.124	20.212	50391	8	6.852	22.194	50463	8	21.332	23.266	50535	10	22.613	24.624				
50320	12	18.924	20.522	50392*	28	7.055	22.546	50464	20	21.340	23.124	50536	8	22.708	24.224				
50321	9	19.408	20.120	50393	10	7.935	22.324	50465	11	21.506	23.300	50537	10	22.851	24.135				
50322	10	19.914	20.030	50394	8	11.246	22.198	50466	33	22.252	23.701	50538	10	22.999	24.407				
50323	22	20.045	20.666	50395	20	11.543	22.326	50467	10	22.325	23.914	50539	34	23.026	24.652				
50324	9	21.201	20.820	50396	10	12.340	22.125	50468	11	22.512	23.248	50540	13	23.039	24.454				
50325	8	21.425	20.445	50397	10	15.123	22.782	50469	12	22.556	23.848	50541	9	23.370	24.265				
50326	8	21.566	20.695	50398	8	15.924	22.951	50470	8	23.128	23.202	50542	22	23.957	24.874				
50327	11	21.712	20.925	50399	16	16.352	22.967	50471	20	23.616	23.926	50543	20	23.960	24.796				
50328	11	21.846	20.388	50400	19	16.596	22.811	50472	10	23.773	23.424	50544	12	24.234	24.481				
50329	27	21.974	20.522	50401	22	16.656	22.796	50473	8	24.156	23.972	50545	10	24.709	24.002				
50330	9	22.004	20.450	50402	10	16.832	22.725	50474	20	24.202	23.937	50546	14	25.031	24.860				
50331	12	22.181	20.879	50403	8	17.202	22.251	50475	8	24.210	23.327	50547	26	25.911	24.734				
50332	10	22.204	20.985	50404	12	17.759	22.522	50476	10	24.760	23.363	50548	8	0.066	25.036				
50333	8	22.295	20.370	50405	8	18.002	22.223	50477	9	24.793	23.908	50549	65	1.814	25.190				
50334	8	22.436	20.725	50406	9	18.100	22.451	50478	31	24.836	23.236	50550	8	3.476	25.974				
50335	10	22.832	20.695	50407	10	18.101	22.426	50479	8	25.146	23.685	50551	14	3.813	25.754				
50336	8	22.933	20.374	50408	8	18.178	22.479	50480	14	25.316	23.782	50552	17	7.128	25.686				
50337	13	23.040	20.574	50409	10	18.313	22.085	50481	8	25.652	23.344	50553	10	8.334	25.433				
50338	8	23.086	20.734	50410	10	18.390	22.860	50482	8	25.865	23.378	50554	13	9.234	25.806				
50339	20	23.515	20.294	50411	8	18.614	22.914	50483	8	0.147	24.538	50555	8	10.244	25.085				
50340	8	23.782	20.072	50412	8	18.624	22.812	50484	8	0.196	24.002	50556	8	10.300	25.402				
50341	10	23.819	20.592	50413	11	19.320	22.954	50485	10	2.541	24.746	50557	8	10.814	25.542				
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50615	13	9.234	0.210	50687	24	4.796	2.467	50759	27	10.518	3.579	50831	11	20.548	4.917	50903	11	15.584	6.416
50616	23	9.351	0.106	50688	34	5.390	2.147	50760	10	11.104	3.642	50832	54	20.738	4.866	50904	24	16.221	6.454
50617	13	11.144	0.388	50689	15	5.424	2.939	50761	19	11.824	3.758	50833	10	21.389	4.154	50905	10	16.881	6.649
50618	11	11.209	0.307	50690	28	5.560	2.777	50762*	38	12.738	3.138	50834	14	21.425	4.684	50906	21	16.986	6.753
50619	11	11.604	0.414	50691	14	5.610	2.413	50763	27	12.866	3.323	50835	19	21.480	4.649	50907	10	17.620	6.532
50620	21	12.043	0.806	50692	12	5.629	2.787	50764	20	13.084	3.189	50836	15	23.606	4.254	50908	19	18.160	6.295
50621	22	12.066	0.076	50693	28	5.634	2.344	50765	13	13.649	3.698	50837	30	24.286	4.994	50909	15	18.251	6.697
50622	20	13.336	0.994	50694	36	5.824	2.685	50766	15	13.827	3.656	50838	26	24.794	4.874	50910	34	18.363	6.508
50623	15	14.051	0.824	50695	21	6.856	2.427	50767	44	15.391	3.114	50839	16	24.900	4.268	50911	14	18.389	6.254
50624	12	16.776	0.820	50696	10	7.182	2.636	50768	20	15.606	3.492	50840	22	0.664	5.667	50912	15	18.568	6.546
50625	12	16.884	0.712	50697	19	7.905	2.201	50769	18	16.306	3.921	50841	19	2.107	5.286	50913	12	19.424	6.914
50626	24	17.104	0.537	50698	13	8.206	2.701	50770	17	16.795	3.847	50842	11	2.275	5.024	50914	14	20.086	6.740
50627	48	17.552	0.838	50699	17	8.393	2.703	50771	12	16.842	3.167	50843	12	2.531	5.148	50915	21	20.228	6.430
50628*	76	18.363	0.980	50700	11	9.044	2.175	50772	12	16.920	3.209	50844	20	3.142	5.713	50916	16	20.274	6.686
50629	15	18.396	0.362	50701	21	10.139	2.051	50773	9	18.452	3.653	50845	13	4.690	5.256	50917	16	20.577	6.416
50630	11	18.564	0.643	50702	16	10.306	2.218	50774	15	19.133	3.808	50846*	52	5.576	5.775	50918	16	20.628	6.244
50631	16	19.751	0.107	50703	13	10.346	2.841	50775	22	19.156	3.804	50847	20	7.029	5.180	50919	37	21.056	6.956
50632	28	19.765	0.836	50704	20	10.656	2.541	50776	23	20.064	3.307	50848	11	8.084	5.842	50920	25	21.664	6.643
50633	17	20.139	0.124	50705	16	10.936	2.213	50777	20	20.090	3.727	50849*	44	8.528	5.694	50921	29	22.541	6.466
50634	22	20.250	0.535	50706	13	11.425	2.043	50778	26	20.390	3.432	50850	15	9.336	5.016	50922	15	22.928	6.208
50635	14	21.381	0.351	50707*	54	12.765	2.952	50779	14	20.723	3.519	50851	12	10.521	5.186	50923	25	23.306	6.182
50636	15	22.368	0.606	50708	34	14.336	2.635	50780	13	20.742	3.287	50852	30	10.606	5.398	50924	15	23.416	6.797
50637*	46	22.650	0.514	50709	16	14.606	2.778	50781	20	20.770	3.926	50853	18	10.830	5.686	50925	12	23.894	6.706
50638	25	22.904	0.728	50710	16	14.662	2.394	50782	15	20.788	3.098	50854	15	11.524	5.882	50926	28	24.369	6.575
50639	12	23.292	0.846	50711	19	15.093	2.807	50783	21	21.076	3.439	50855	39	13.098	5.854	50927	37	25.634	6.207
50640	25	24.680	0.956	50712	16	15.230	2.469	50784	40	21.376	3.732	50856	12	13.326	5.772	50928	14	0.062	7.294
50641	44	25.535	0.673	50713	11	15.362	2.868	50785	34	24.284	3.104	50857	10	14.512	5.400	50929	12	1.084	7.971
50642	14	25.542	0.546	50714	22	15.654	2.323	50786	20	24.824	3.610	50858	24	14.706	5.413	50930*	38	1.368	7.528
50643	29	0.447	1.113	50715	21	16.573	2.847	50787	12	25.520	3.326	50859	13	14.924	5.962	50931	19	1.626	7.004
50644	24	1.378	1.573	50716*	58	16.987	2.541	50788	16	0.341	4.591	50860*	56	15.222	5.552	50932	30	1.733	7.828
50645	10	1.908	1.521	50717	13	17.654	2.410	50789	26	1.552	4.700	50861	11	15.797	5.202	50933	16	2.013	7.163
50646	11	2.582	1.345	50718	16	17.790	2.806	50790	27	1.800	4.520	50862	34	16.096	5.412	50934	26	2.089	7.261
50647	14	3.158	1.168	50719	9	17.837	2.618	50791	21	2.756	4.634	50863	21	16.452	5.312	50935	11	3.904	7.052
50648	17	3.196	1.196	50720	36	18.011	2.463	50792	37	3.135	4.025	50864	23	16.675	5.116	50936	13	3.958	7.552
50649	17	3.428	1.696	50721	17	18.385	2.411	50793	20	3.146	4.356	50865	21	16.954	5.346	50937	21	5.413	7.462
50650	12	5.400	1.278	50722	23	18.674	2.827	50794	23	3.173	4.488	50866	12	17.794	5.458	50938	11	5.464	7.527
50651	17	7.106	1.014	50723	42	18.910	2.536	50795	46	4.386	4.168	50867	11	17.886	5.102	50939	18	5.475	7.582
50652	22	8.844	1.060	50724	24	18.923	2.526	50796	17	5.114	4.520	50868	16	18.215	5.856	50940	17	5.631	7.076
50653	10	8.932	1.836	50725	27	19.054	2.620	50797	20	5.632	4.186	50869	36	19.425	5.272	50941	15	7.687	7.947
50654	12	9.081	1.266	50726	48	19.348	2.331	50798	13	6.134	4.595	50870	34	19.490	5.908	50942	12	7.687	7.668
50655	23	11.151	1.466	50727	12	19.862	2.302	50799	27	6.316	4.883	50871	10	19.590	5.557	50943	15	7.776	7.865
50656	34	13.830	1.434	50728	34	20.202	2.008	50800	15	6.318	4.550	50872	16	19.620	5.660	50944	17	8.700	7.622
50657	22	14.516	1.924	50729	22	20.234	2.377	50801	17	6.926	4.086	50873	14	19.800	5.642	50945	20	8.873	7.227
50658	13	14.906	1.850	50730	34	20.951	2.654	50802	30	7.305	4.074	50874	20	19.820	5.515	50946	24	10.451	7.326
50659	11	15.522	1.139	50731	21	21.234	2.805	50803	16	7.616	4.423	50875	36	20.224	5.304	50947	27	11.711	7.404
50660	32	16.215	1.706	50732	28	21.284	2.722	50804	19	9.718	4.119	50876	32	20.498	5.130	50948	11	13.749	7.324
50661	10	17.176	1.425	50733	13	21.410	2.446	50805	37	9.962	4.784	50877	10	20.666	5.738	50949	29	15.783	7.424
50662	14	17.256	1.103	50734	56	21.626	2.239	50806	32	10.201	4.736	50878	24	20.780	5.586	50950	32	16.748	7.236
50663	13	17.698	1.899	50735	23	22.058	2.232	50807	16	11.350	4.979	50879	50	21.368	5.551	50951	37	16.814	7.933
50664	15	18.621	1.990	50736	20	22.136	2.933	50808	16	12.166	4.586	50880*	80	22.373	5.718	50952	13	17.865	7.004
50665	13	19.704	1.674	50737	34	22.564	2.106	50809	36	12.197	4.626	50881	24	22.609	5.570	50953	14	18.106	7.706
50666	14	20.827	1.892	50738	13	24.176	2.557	50810	29	12.487	4.135	50882	20	24.091	5.763	50954	34	18.227	7.623
50667	34	20.979	1.014	50739	27	24.414	2.889	50811	17	12.764	4.767	50883	30	0.368	6.775	50955	11	18.373	7.844
50668	13	21.333	1.876	50740	21	25.086	2.716	50812	22	13.880	4.026	50884	17	2.353	6.653	50956	18	18.788	7.683
50669	30	21.344	1.328	50741	16	0.514	3.608	50813	12	13.899	4.435	50885	39	2.459	6.928	50957	18	19.004	7.174
50670	12	21.398	1.055	50742	38	0.872	3.622	50814	11	14.433	4.804	50886	36	2.800	6.580	50958	11	19.127	7.908
50671	14	21.446	1.439	50743	20	1.763	3.234	50815	11	14.437	4.342	50887	32	3.288	6.464	50959	12	19.878	7.464
50672	32	21.828	1.275	50744	14	2.428	3.177	50816	11	14.535	4.248	50888	20	5.110	6.102	50960	9	20.102	7.234
50673	44	22.220	1.126	50745*	39	2.591	3.699	50817	20	14.918	4.378	50889*	40	5.281	6.978	50961	36	21.400	7.882
50674	18	22.369	1.358	50746	14	2.936	3.693	50818	18	15.036	4.282	50890	21	5.899	6.105	50962	32	21.486	7.224
50675	34	22.758	1.216	50747	14	3.359	3.319	50819	21	15.861	4.314	50891	12	6.527	6.150	50963	30	21.866	7.863
50676	37	23.218	1.751	50748	28	3.558	3.626	50820	37	15.920	4.514	50892	16	6.685	6.214	50964	14	22.872	7.236
50677	36	24.594	1.634	50749	16	4.462	3.744	50821	22	16.056	4.982	50893	13	7.313	6.764	50965	14	22.920	7.560
50678	23	25.407	1.359	5075															

50975	14	3·675	8·328	51047	21	13·283	9·751	51119	14	25·007	10·527	51191	19	7·553	12·430	51263	14	9·776	13·756
50976	12	3·752	8·425	51048	24	13·548	9·786	51120	22	25·126	10·844	51192	50	7·631	12·874	51264	14	10·226	13·408
50977	26	6·096	8·793	51049	10	13·816	9·334	51121	18	25·166	10·026	51193	16	8·120	12·676	51265	21	11·428	13·357
50978	30	6·518	8·604	51050	33	15·076	9·524	51122	18	25·301	10·213	51194	56	8·160	12·534	51266	16	12·592	13·427
50979	34	8·025	8·873	51051	12	15·202	9·254	51123	11	25·954	10·022	51195	31	8·251	12·072	51267	24	12·890	13·980
50980	23	8·096	8·872	51052	30	15·226	9·024	51124	13	0·026	11·298	51196	44	8·358	12·396	51268	24	12·994	13·946
50981	28	8·135	8·814	51053	40	15·519	9·542	51125	11	0·146	11·020	51197	15	8·680	12·792	51269	42	13·367	13·272
50982	24	8·140	8·417	51054	18	15·624	9·554	51126	17	1·322	11·746	51198	14	8·854	12·156	51270	36	14·168	13·780
50983	46	8·450	8·134	51055	16	15·703	9·199	51127	10	2·330	11·576	51199	19	8·974	12·578	51271	13	14·528	13·891
50984	22	8·566	8·965	51056	14	16·166	9·690	51128	21	3·847	11·512	51200	38	9·560	12·138	51272	19	15·850	13·980
50985	15	9·030	8·482	51057	12	16·518	9·410	51129	13	4·084	11·372	51201	36	10·740	12·395	51273	37	16·266	13·972
50986	29	9·211	8·228	51058	16	16·584	9·018	51130	10	4·185	11·454	51202	37	11·346	12·826	51274	13	16·315	13·908
50987	15	9·786	8·564	51059	16	17·183	9·704	51131	11	6·292	11·420	51203	14	11·981	12·750	51275	29	16·466	13·254
50988	54	10·128	8·028	51060	13	17·376	9·238	51132	14	8·512	11·226	51204	32	12·539	12·834	51276	21	16·795	13·548
50989	22	10·316	8·227	51061	15	18·060	9·254	51133	16	8·602	11·188	51205	30	12·672	12·008	51277	18	17·166	13·752
50990	22	11·236	8·906	51062	24	18·555	9·734	51134	19	8·797	11·757	51206	14	13·478	12·214	51278	30	17·394	13·244
50991	16	11·436	8·534	51063	28	19·394	9·775	51135	38	9·775	11·394	51207	9	13·606	12·863	51279	34	17·474	13·006
50992	21	11·653	8·409	51064	10	19·792	9·448	51136	14	10·986	11·294	51208*	56	14·590	12·450	51280	12	17·790	13·843
50993	19	12·056	8·398	51065	26	21·582	9·178	51137	19	11·044	11·316	51209	15	14·788	12·746	51281	34	17·905	13·346
50994	19	12·757	8·571	51066	16	21·648	9·952	51138	20	11·234	11·055	51210	36	14·966	12·503	51282	24	18·148	13·150
50995	13	13·236	8·618	51067	18	21·708	9·944	51139	11	11·645	11·252	51211	13	15·364	12·894	51283	11	18·696	13·772
50996	18	14·583	8·821	51068	10	21·861	9·882	51140	19	11·756	11·691	51212	32	15·616	12·440	51284	40	18·784	13·473
50997	12	15·837	8·090	51069	20	22·264	9·404	51141	12	11·966	11·324	51213	18	16·546	12·676	51285	17	19·332	13·316
50998	32	15·988	8·931	51070	14	22·282	9·609	51142	17	11·980	11·147	51214	12	17·590	12·604	51286	15	19·332	13·548
50999	28	16·062	8·868	51071	13	22·424	9·314	51143	14	12·032	11·764	51215	11	17·662	12·104	51287	12	19·858	13·376
51000	32	16·822	8·731	51072	17	22·565	9·087	51144	36	13·102	11·961	51216	15	17·736	12·760	51288	36	19·906	13·726
51001*	58	16·844	8·774	51073	11	22·595	9·596	51145	30	13·499	11·325	51217	24	18·878	12·146	51289	15	21·734	13·082
51002	19	17·336	8·367	51074	28	23·154	9·654	51146	26	13·659	11·323	51218	18	18·891	12·424	51290	13	21·817	13·094
51003	36	17·369	8·824	51075	21	23·676	9·591	51147	44	15·158	11·924	51219	27	19·458	12·376	51291	17	22·052	13·767
51004	12	17·655	8·562	51076	18	24·316	9·533	51148	23	15·224	11·106	51220	34	19·844	12·114	51292	14	22·434	13·783
51005	17	17·666	8·672	51077	10	24·972	9·445	51149	11	15·266	11·087	51221	16	19·919	12·137	51293	32	23·340	13·190
51006	13	17·694	8·663	51078	20	2·617	10·316	51150	10	15·482	11·731	51222	22	20·179	12·293	51294	30	23·472	13·382
51007	17	17·818	8·493	51079	10	3·115	10·035	51151	12	15·617	11·994	51223	16	20·248	12·123	51295	14	23·760	13·488
51008	19	18·084	8·572	51080	26	3·368	10·114	51152	30	15·626	11·272	51224	34	20·308	12·238	51296	23	24·005	13·214
51009	14	18·453	8·224	51081*	76	3·776	10·152	51153	16	15·909	11·824	51225	26	20·805	12·457	51297	11	24·156	13·318
51010	15	18·804	8·384	51082	11	4·024	10·228	51154	40	17·676	11·514	51226	32	20·896	12·124	51298	19	24·199	13·133
51011	36	18·824	8·795	51083	17	5·903	10·196	51155	15	18·078	11·715	51227	11	20·952	12·024	51299	13	24·272	13·359
51012	15	18·848	8·312	51084	12	7·787	10·822	51156	44	18·124	11·495	51228	12	20·974	12·054	51300	27	24·288	13·990
51013*	92	18·925	8·434	51085	34	7·905	10·774	51157	30	18·382	11·544	51229*	60	21·473	12·369	51301	34	24·560	13·427
51014	40	19·371	8·777	51086	19	8·016	10·392	51158	13	19·430	11·800	51230	15	21·820	12·624	51302	17	24·823	13·974
51015	14	19·898	8·414	51087	16	9·066	10·413	51159	39	19·486	11·944	51231	44	21·899	12·410	51303	36	25·972	13·386
51016	12	19·934	8·854	51088	12	9·694	10·114	51160	11	19·761	11·966	51232	18	22·119	12·810	51304	11	1·498	14·680
51017	22	20·076	8·596	51089	20	9·748	10·577	51161	44	20·764	11·762	51233	15	22·651	12·246	51305	13	1·910	14·096
51018	40	20·295	8·054	51090	17	11·327	10·886	51162	14	21·632	11·206	51234	42	22·713	12·285	51306	15	2·056	14·442
51019	33	21·102	8·713	51091	17	12·729	10·028	51163	21	21·836	11·779	51235	17	22·932	12·306	51307	18	2·900	14·836
51020	10	21·372	8·545	51092	37	12·730	10·466	51164	14	22·020	11·517	51236	52	23·322	12·446	51308	23	2·967	14·978
51021	16	21·822	8·436	51093	22	13·669	10·114	51165	17	22·135	11·920	51237	18	23·434	12·064	51309	12	3·135	14·166
51022	15	22·561	8·770	51094	12	14·529	10·602	51166	36	22·626	11·255	51238	30	23·668	12·143	51310	11	3·157	14·524
51023	28	23·016	8·552	51095	20	14·609	10·826	51167	19	22·854	11·946	51239	21	23·916	12·222	51311	20	3·424	14·487
51024	26	23·377	8·511	51096	24	15·186	10·555	51168	40	23·779	11·339	51240	36	24·250	12·845	51312	11	3·706	14·925
51025	14	23·621	8·005	51097	14	15·324	10·226	51169	20	24·176	11·444	51241	31	24·324	12·976	51313	18	3·745	14·813
51026	32	23·651	8·476	51098	16	16·016	10·215	51170	15	24·266	11·887	51242	19	24·720	12·700	51314	16	3·780	14·950
51027	13	23·716	8·946	51099	15	16·761	10·994	51171	26	24·314	11·853	51243	50	24·779	12·575	51315	20	4·103	14·566
51028	34	24·054	8·676	51100	20	17·396	10·992	51172	12	24·314	11·036	51244	24	25·620	12·130	51316	13	4·275	14·058
51029	36	24·781	8·485	51101	26	17·674	10·414	51173*	36	24·321	11·068	51245	21	0·200	13·690	51317	14	4·463	14·046
51030	34	25·167	8·148	51102	18	17·839	10·194	51174	12	24·362	11·479	51246	19	1·454	13·818	51318	18	4·818	14·496
51031	28	25·260	8·550	51103	17	18·851	10·066	51175	24	24·544	11·308	51247	16	2·176	13·056	51319	20	6·404	14·316
51032	26	25·899	8·554	51104	58	18·866	10·316	51176	23	24·554	11·424	51248	14	3·054	13·136	51320	17	6·406	14·273
51033*	54	2·744	9·865	51105	12	19·906	10·972	51177	36	24·572	11·840	51249	18	3·180	13·730	51321	16	7·054	14·722
51034	28	2·959	9·699	51106	10	19·916	10·298	51178	18	25·286	11·396	51250	20	3·335	13·154	51322	19	8·096	14·660
51035	21	3·236	9·894	51107	21	20·915	10·142	51179	13	25·890	11·474	51251	18	3·630	13·500	51323	16	8·622	14·796
51036	42	4·100	9·876	51108	47	21·068	10·914	51180	11	0·036	12·145	51252	12	3·966	13·982	51324	16	8·986	14·816
51037																			

51335	18	13.705	14.862	51407	36	19.630	15.702	51479	19	21.684	16.706	51551	17	22.296	17.756	51623	14	19.154	18.266
51336	25	13.791	14.880	51408	13	20.458	15.470	51480	15	21.726	16.076	51552	13	22.398	17.849	51624	12	19.236	18.086
51337	20	13.836	14.905	51409	20	20.588	15.292	51481	36	22.385	16.367	51553	25	22.922	17.096	51625	27	19.654	18.966
51338*	76	14.600	14.766	51410	11	20.630	15.286	51482	20	22.542	16.411	51554	15	23.082	17.942	51626	60	19.698	18.176
51339	30	15.032	14.528	51411	28	20.891	15.948	51483	12	22.595	16.080	51555	20	23.148	17.827	51627	40	19.747	18.926
51340	20	15.212	14.339	51412	20	21.166	15.773	51484	29	22.760	16.755	51556	21	23.607	17.446	51628	14	19.750	18.418
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51381	22	8.308	15.154	51453*	62	10.796	16.644	51525	17	11.629	17.538	51597	15	11.530	18.257	51669	15	4.527	19.468
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51754	25	6-860	20-782	51826	40	23-876	20-702	51898	21	20-883	21-196	51970*	40	15-456	22-168	52042	12	11-108	23-296
51755	13	7-356	20-974	51827	25	24-316	20-392	51899	16	21-212	21-894	51971	13	15-604	22-373	52043	15	11-287	23-939
51756	37	7-410	20-872	51828	42	24-678	20-320	51900	18	21-									

52055	22	13.908	23.592	52127	19	12.808	24.664	52199*	78	21.624	24.373	52271	14	18.044	25.533	52326	26	0.700	1.821
52056	36	13.961	23.392	52128	16	12.866	24.235	52200	24	21.817	24.007	52272	18	18.154	25.574	52327	19	2.072	1.689
52057	20	14.368	23.704	52129*	50	12.994	24.576	52201	44	22.194	24.847	52273	19	18.268	25.845	52328	10	2.885	1.404
52058	14	14.428	23.296	52130	22	13.025	24.177	52202	15	22.512	24.293	52274	25	18.638	25.322	52329	9	3.400	1.147
52059*	40	14.550	23.892	52131	19	13.059	24.834	52203	38	22.964	24.775	52275	32	19.070	25.782	52330	10	4.178	1.353
52060	15	14.644	23.306	52132	21	13.212	24.525	52204	36	24.628	24.522	52276	20	19.139	25.078	52331	24	6.824	1.960
52061	31	14.674	23.046	52133	20	13.424	24.794	52205	22	24.780	24.539	52277	20	19.684	25.450	52332	33	7.170	1.858
52062	15	14.754	23.602	52134	38	13.444	24.923	52206	18	24.944	24.477	52278	13	19.861	25.543	52333	40	8.474	1.460
52063	37	14.794	23.384	52135	14	13.469	24.392	52207	23	25.548	24.254	52279	27	19.894	25.394	52334	12	8.889	1.322
52064	18	14.845	23.048	52136	18	13.570	24.142	52208	23	0.646	25.307	52280	25	20.243	25.136	52335	27	9.563	1.276
52065	22	15.256	23.483	52137	34	13.675	24.518	52209	37	1.058	25.333	52281	40	20.604	25.845	52336	9	9.663	1.093
52066	35	15.347	23.873	52138	18	13.688	24.417	52210	25	1.070	25.138	52282	36	20.756	25.875	52337	23	10.441	1.441
52067	17	15.450	23.517	52139	21	13.920	24.504	52211	36	1.994	25.547	52283	15	20.824	25.022	52338	16	12.400	1.516
52068	37	15.466	23.272	52140	31	13.974	24.285	52212	27	2.265	25.150	52284	40	21.157	25.106	52339	8	12.598	1.250
52069	42	15.784	23.822	52141	20	14.591	24.186	52213	33	2.636	25.958	52285	22	21.302	25.777	52340	19	14.062	1.971
52070	17	16.136	23.970	52142	34	14.887	24.189	52214	20	3.068	25.517	52286	62	21.668	25.636	52341	31	15.176	1.304
52071	15	16.322	23.125	52143	25	15.036	24.842	52215	36	3.944	25.383	52287	22	22.095	25.691	52342	29	15.441	1.583
52072	18	17.183	23.101	52144	23	15.054	24.032	52216	16	5.398	25.511	52288	36	22.605	25.983	52343*	45	16.466	1.629
52073	44	17.444	23.839	52145	15	15.322	24.018	52217	14	6.276	25.108	52289	48	22.816	25.762	52344	22	17.176	1.396
52074	20	17.754	23.925	52146	36	15.391	24.898	52218	18	6.428	25.793	52290	23	23.180	25.486	52345	9	17.764	1.973
52075	13	17.798	23.964	52147	14	15.478	24.317	52219	15	6.770	25.736	52291	26	23.424	25.787	52346	12	18.671	1.450
52076	40	18.042	23.962	52148	13	15.508	24.121	52220	15	6.800	25.292	52292	17	25.704	25.246	52347	17	22.476	1.650
52077*	56	18.294	23.684	52149	21	15.754	24.325	52221*	54	7.220	25.206					52348	15	0.049	2.187
52078	40	18.724	23.742	52150	37	15.840	24.602	52222*	53	7.569	25.356					52349	10	1.908	2.946
52079	37	18.841	23.916	52151	24	15.920	24.068	52223	12	7.896	25.008					52350*	31	3.592	2.700
52080	24	19.064	23.343	52152	15	16.155	24.651	52224	16	7.919	25.691					52351	11	4.060	2.214
52081	20	19.082	23.226	52153	18	16.161	24.696	52225	33	9.530	25.496					52352	36	4.074	2.109
52082	22	19.424	23.126	52154	68	16.170	24.052	52226	22	9.752	25.766					52353	19	4.382	2.014
52083	17	19.500	23.556	52155	19	16.282	24.866	52227	13	9.806	25.332					52354	10	5.262	2.582
52084	16	19.658	23.753	52156	18	16.480	24.648	52228	19	9.900	25.166					52355	8	5.523	2.395
52085	12	20.226	23.222	52157	17	16.636	24.526	52229	24	10.583	25.110					52356	28	7.193	2.832
52086	36	20.286	23.946	52158	20	16.761	24.526	52230	36	11.266	25.125					52357	27	7.428	2.572
52087	18	20.300	23.965	52159	12	16.800	24.258	52231	12	11.802	25.307					52358*	47	7.440	2.262
52088	40	20.726	23.524	52160	14	16.850	24.696	52232	20	12.182	25.876					52359	14	7.500	2.322
52089	12	20.926	23.082	52161	40	16.886	24.814	52233	27	12.203	25.698					52360	8	7.622	2.394
52090	40	20.948	23.360	52162	19	16.915	24.664	52234	36	12.622	25.226					52361*	36	7.686	2.111
52091	22	21.161	23.446	52163	13	16.924	24.363	52235	13	12.640	25.912					52362	30	7.692	2.628
52092	40	22.054	23.306	52164	36	16.928	24.876	52236	13	12.732	25.588					52363	29	7.713	2.558
52093	19	22.343	23.046	52165*	78	16.929	24.630	52237	15	12.852	25.434					52364	26	7.824	2.400
52094	21	22.724	23.765	52166	16	16.930	24.780	52238	28	13.026	25.848					52365*	36	7.870	2.100
52095	23	25.246	23.446	52167	14	16.977	24.750	52239	36	13.116	25.360					52366*	29	8.241	2.778
52096	44	0.271	24.393	52168	17	16.995	24.602	52240	21	13.284	25.510					52367	8	8.810	2.906
52097	21	0.582	24.536	52169	20	17.030	24.624	52241	28	13.300	25.545					52368*	35	9.011	2.739
52098	19	0.877	24.822	52170	31	17.378	24.612	52242	18	13.400	25.944					52369*	32	9.143	2.606
52099	31	1.638	24.604	52171	14	17.678	24.190	52243	14	13.500	25.323					52370	9	10.042	2.792
52100	30	2.226	24.606	52172	16	17.806	24.742	52244	24	13.574	25.564					52371	27	10.857	2.976
52101	13	2.738	24.664	52173	41	17.920	24.236	52245	16	13.644	25.012					52372	17	10.886	2.544
52102	16	2.778	24.024	52174	11	18.080	24.384	52246	15	13.882	25.312					52373	20	11.820	2.094
52103	23	3.339	24.438	52175	23	18.170	24.735	52247	44	14.169	25.508					52374	29	13.432	2.660
52104	15	5.702	24.336	52176	62	18.244	24.176	52248	22	14.185	25.494					52375	22	13.915	2.108
52105	16	6.246	24.033	52177	13	18.332	24.806	52249	22	14.714	25.368					52376	10	15.292	2.846
52106	24	6.466	24.138	52178	33	18.357	24.416	52250	12	14.764	25.502					52377	23	15.857	2.685
52107	21	7.119	24.834	52179	12	18.592	24.365	52251	59	14.970	25.365					52378	19	15.982	2.786
52108	17	7.546	24.690	52180	34	18.593	24.253	52252	27	14.996	25.648					52379	13	16.105	2.785
52109	12	7.556	24.572	52181	18	18.668	24.585	52253	13	15.035	25.906					52380*	37	17.318	2.884
52110	13	7.846	24.947	52182	23	18.714	24.984	52254	30	15.122	25.344					52381	11	17.712	2.334
52111	14	8.798	24.307	52183	15	18.716	24.516	52255	25	15.645	25.377					52382	21	17.866	2.520
52112	16	9.235	24.908	52184	15	18.994	24.814	52256	19	15.884	25.864					52383	20	18.828	2.499
52113	28	9.270	24.949	52185	23	19.013	24.460	52257	16	15.952	25.559					52384	18	19.274	2.023
52114	27	9.612	24.685	52186	14	19.142	24.536	52258	15	15.975	25.501					52385	18	19.681	2.636
52115	15	9.880	24.981	52187	36	19.938	24.090	52259	15	16.086	25.148					52386	17	21.156	2.821
52116	23	9.958	24.790	52188	19	20.012	24.298	52260	21	16.135	25.420					52387*	38	23.882	2.363
52117	17	10.417	24.125	52189	19	20.075	24.528	52261	18	16.400	25.618					52388	9	24.247	2.042
52118	19	10.554	24.591	52190*	56	20.104	24.414	52262	30	16.672	25.824					52389	29	24.364	2.226
52119	22	10.696	24.817	52191	26	20.112	24.151	52263	18	16.850	25.224					52390	27	24.440	2.141
52120	12	10.700	24.685	52192	24	20.414	24.927	52264	18	17.034	25.763					52391	14	24.466	2.292
52121	26	11.036	24.537	52193	20	20.417	24.853	52265	16	17.065	25.463					52392	25	24.992	2.324

52398	10	7.480	3.062	52470	8	10.531	5.906	52542	11	16.392	7.890	52614*	60	16.140	9.344	52686	9	19.095	11.708
52399	27	7.574	3.070	52471	10	10.646	5.989	52543	20	18.136	7.664	52615	19	18.330	9.803	52687	30	19.250	11.544
52400	21	8.160	3.837	52472*	47	10.946	5.878	52544	14	18.554	7.912	52616	10	18.962	9.496	52688	13	20.014	11.176
52401	12	8.409	3.753	52473	8	12.328	5.740	52545	25	19.408	7.354	52617	35	20.808	9.719	52689	21	21.194	11.286
52402	14	9.190	3.508	52474	8	13.253	5.566	52546	8	19.774	7.360	52618	15	21.774	9.788	52690	12	25.229	11.808
52403	27	9.872	3.858	52475	16	13.756	5.631	52547	11	19.799	7.800	52619	11	23.558	9.551	52691	11	25.400	11.252
52404	26	10.028	3.737	52476	12	14.296	5.030	52548*	34	22.402	7.523	52620	21	24.378	9.066	52692	31	0.315	12.362
52405*	50	10.540	3.189	52477	20	15.408	5.782	52549	20	22.418	7.290	52621	12	25.510	9.450	52693	9	0.454	12.020
52406	23	11.409	3.853	52478	25	15.833	5.854	52550	12	0.574	8.622	52622	10	0.655	10.096	52694	36	0.924	12.516
52407	18	11.852	3.558	52479	17	16.248	5.626	52551	11	0.938	8.577	52623	28	1.330	10.870	52695	13	1.272	12.208
52408	17	12.744	3.868	52480	22	17.264	5.370	52552	10	1.212	8.540	52624	11	1.578	10.364	52696	10	1.518	12.283
52409	13	13.030	3.128	52481	15	18.256	5.849	52553	18	1.618	8.740	52625	9	2.714	10.890	52697	20	1.862	12.902
52410	27	13.208	3.560	52482	14	18.728	5.740	52554	24	2.340	8.534	52626	10	3.646	10.794	52698	8	2.330	12.750
52411	8	13.660	3.424	52483	29	19.250	5.566	52555	20	2.547	8.036	52627	15	3.872	10.600	52699	34	2.386	12.626
52412	12	15.358	3.611	52484	9	19.391	5.313	52556	16	2.724	8.194	52628	11	5.110	10.108	52700	12	3.222	12.176
52413	19	16.173	3.561	52485	11	19.890	5.400	52557	11	2.819	8.592	52629	8	5.660	10.442	52701	10	5.224	12.896
52414	14	16.958	3.362	52486	15	21.966	5.574	52558	11	3.459	8.592	52630	8	6.182	10.940	52702	13	5.359	12.858
52415	20	17.031	3.280	52487	15	25.880	5.787	52559	31	4.342	8.276	52631*	48	7.276	10.195	52703	8	5.630	12.439
52416*	34	17.624	3.727	52488	15	0.076	6.546	52560	8	4.467	8.256	52632	12	8.501	10.420	52704	16	5.908	12.877
52417	11	17.734	3.875	52489	12	0.838	6.250	52561	20	6.328	8.388	52633	10	9.115	10.918	52705	19	6.206	12.492
52418	41	17.766	3.298	52490	11	1.907	6.630	52562*	45	7.448	8.578	52634	11	9.248	10.346	52706	16	6.292	12.146
52419	13	17.796	3.370	52491	26	3.162	6.249	52563	12	7.619	8.752	52635	18	9.341	10.871	52707	9	6.600	12.052
52420	8	18.250	3.738	52492	9	3.642	6.411	52564	11	7.770	8.518	52636*	45	9.542	10.170	52708	15	6.700	12.738
52421	12	19.406	3.940	52493	17	3.772	6.512	52565	8	8.402	8.468	52637	13	9.617	10.692	52709	18	8.070	12.690
52422	8	20.700	3.499	52494	19	4.544	6.434	52566	8	9.902	8.669	52638	12	10.398	10.712	52710	23	10.942	12.849
52423	8	21.328	3.699	52495	10	5.609	6.111	52567	16	10.226	8.760	52639	16	12.130	10.924	52711	10	11.708	12.264
52424	9	25.057	3.506	52496	11	7.632	6.148	52568	20	10.766	8.384	52640	13	12.822	10.588	52712	32	12.208	12.406
52425	34	25.852	3.198	52497	8	8.358	6.537	52569	13	11.360	8.678	52641	17	12.872	10.790	52713	19	12.770	12.070
52426	9	2.316	4.926	52498	16	8.416	6.470	52570	27	11.640	8.988	52642	11	13.643	10.270	52714	13	16.223	12.673
52427	11	5.630	4.217	52499	8	8.464	6.564	52571	9	11.686	8.545	52643	11	13.738	10.010	52715	12	17.558	12.398
52428	17	7.364	4.312	52500	8	9.449	6.948	52572	21	12.460	8.696	52644	10	15.393	10.730	52716	8	19.470	12.664
52429	21	7.498	4.810	52501	8	10.408	6.777	52573	16	14.880	8.760	52645	15	15.982	10.540	52717	11	19.600	12.755
52430	24	9.686	4.580	52502	9	10.572	6.558	52574	19	14.894	8.540	52646	12	16.648	10.501	52718	24	19.945	12.930
52431	20	10.466	4.531	52503	20	12.092	6.588	52575	10	15.250	8.498	52647	11	16.770	10.260	52719*	31	20.494	12.168
52432	25	10.500	4.098	52504	12	12.300	6.032	52576	18	15.746	8.417	52648	12	18.186	10.802	52720	9	20.510	12.411
52433	8	10.522	4.464	52505	14	12.400	6.180	52577	27	15.886	8.557	52649	8	18.508	10.760	52721	9	21.345	12.128
52434	21	10.562	4.147	52506	13	12.941	6.660	52578	24	16.502	8.614	52650	16	20.487	10.000	52722	8	21.803	12.452
52435	29	10.580	4.149	52507*	33	13.740	6.418	52579	11	17.615	8.466	52651	10	24.571	10.140	52723	12	25.718	12.598
52436	9	10.843	4.436	52508	11	14.086	6.763	52580	8	18.430	8.931	52652	35	24.784	10.710	52724	13	0.952	13.262
52437	18	11.426	4.591	52509	9	14.406	6.896	52581	13	18.474	8.976	52653	9	25.462	10.626	52725	10	1.089	13.452
52438	8	11.830	4.872	52510*	33	15.174	6.223	52582	22	19.456	8.374	52654	24	25.492	10.261	52726	11	1.624	13.276
52439*	35	12.392	4.687	52511*	40	15.655	6.652	52583	25	19.502	8.590	52655	25	0.220	11.330	52727	15	1.938	13.032
52440	21	12.458	4.878	52512	24	15.828	6.473	52584	8	19.564	8.935	52656	26	1.372	11.402	52728	13	2.178	13.482
52441	27	12.795	4.920	52513	27	15.834	6.494	52585	8	20.482	8.136	52657*	23	1.910	11.126	52729	18	3.588	13.426
52442	14	14.060	4.261	52514	18	16.100	6.648	52586	17	23.782	8.766	52658	14	1.912	11.910	52730	20	4.260	13.970
52443	15	14.220	4.209	52515	22	18.423	6.988	52587	11	23.932	8.188	52659	13	2.140	11.364	52731	25	4.287	13.210
52444*	43	14.795	4.966	52516	23	18.698	6.771	52588	20	25.907	8.167	52660	8	2.150	11.477	52732	24	4.530	13.072
52445	8	14.820	4.708	52517	17	18.880	6.782	52589	14	0.726	9.726	52661	23	2.172	11.896	52733	18	5.422	13.732
52446	16	15.054	4.644	52518	13	21.006	6.505	52590	9	1.249	9.657	52662	8	3.798	11.338	52734	12	5.719	13.420
52447	32	16.222	4.129	52519	11	21.689	6.282	52591	21	4.033	9.857	52663	37	4.764	11.604	52735	8	6.671	13.613
52448	14	16.508	4.232	52520	10	22.020	6.720	52592	9	4.139	9.068	52664	11	5.124	11.523	52736	31	6.819	13.830
52449*	42	17.068	4.800	52521	15	22.410	6.102	52593	8	5.455	9.437	52665	12	5.264	11.330	52737	12	7.095	13.984
52450	10	18.770	4.380	52522	21	22.488	6.064	52594*	28	6.396	9.879	52666	23	5.716	11.163	52738	20	7.412	13.946
52451	8	19.363	4.221	52523	9	23.050	6.763	52595	23	8.478	9.814	52667	12	6.388	11.772	52739	15	7.700	13.190
52452	25	20.678	4.223	52524	10	24.458	6.928	52596*	37	9.638	9.094	52668	8	6.429	11.792	52740	14	7.986	13.691
52453*	18	21.162	4.365	52525	15	25.253	6.487	52597	17	10.013	9.231	52669	24	6.508	11.356	52741	12	8.664	13.182
52454	9	21.376	4.877	52526	14	0.494	7.330	52598	12	10.352	9.041	52670	8	6.593	11.514	52742	14	9.736	13.575
52455	14	21.438	4.120	52527	13	2.428	7.059	52599	12	10.540	9.193	52671	15	6.650	11.620	52743	11	10.524	13.920
52456	8	22.698	4.780	52528	26	3.094	7.958	52600	10	10.814	9.460	52672	14	6.926	11.693	52744	23	10.840	13.701
52457	28	23.034	4.840	52529*	41	3.275	7.668	52601	17	10.968	9.035	52673	12	7.775	11.494	52745	26	11.204	13.190
52458	31	23.883	4.263	52530	33	5.282	7.972	52602	19	11.887	9.299	52674	17	8.554	11.171	52746	9	12.176	13.092
52459	15	24.616	4.630	52531	8	6.036	7.730	52603	27	12.151	9.810	52675	20	8.696	11.543	52747	22	12.554	13.642
52460	11	25.792	4.568	52532	30	6.936	7.200	52604	29	12.520	9.226	52676*	39	12.518	11.918	52748	10	13.048	13.760
52461	8																		

52758	11	18.314	13.839	52830	12	11.924	15.966	52902	8	6.122	17.790	52974*	31	12.077	18.126	53046	21	7.407	21.418
52759	8	18.440	13.429	52831	10	12.436	15.112	52903	14	6.737	17.188	52975	12	13.446	18.400	53047	16	7.948	21.720
52760	21	20.482	13.672	52832	9	13.121	15.634	52904	21	7.752	17.410	52976	15	14.422	18.740	53048	8	9.688	21.181
52761	23	20.561	13.428	52833	10	15.068	15.850	52905	21	7.789	17.214	52977	11	14.776	18.183	53049	14	10.602	21.448
52762	18	22.496	13.000	52834	20	15.146	15.394	52906	13	8.028	17.622	52978	14	16.212	18.603	53050	16	13.322	21.382
52763	20	23.510	13.377	52835	9	17.670	15.500	52907	18	8.110	17.206	52979	10	18.113	18.618	53051	10	13.422	21.716
52764	8	23.788	13.953	52836	12	17.876	15.688	52908	11	9.833	17.382	52980	22	18.743	18.514	53052	15	13.470	21.642
52765	24	23.858	13.352	52837	15	18.986	15.200	52909	26	10.160	17.792	52981	10	20.676	18.334	53053*	38	15.459	21.535
52766	22	25.446	13.888	52838	8	20.464	15.670	52910	10	10.364	17.692	52982	8	21.136	18.067	53054	12	15.460	21.918
52767	12	0.820	14.194	52839	10	21.244	15.577	52911	9	10.426	17.090	52983	8	24.674	18.801	53055	12	15.633	21.828
52768	24	1.342	14.720	52840	8	23.950	15.568	52912	20	11.204	17.340	52984	33	25.126	18.170	53056	10	17.262	21.976
52769	28	1.770	14.780	52841	14	25.678	15.046	52913	8	11.310	17.134	52985	15	0.816	19.296	53057	18	17.300	21.022
52770	12	1.910	14.048	52842	25	0.036	16.450	52914	11	11.412	17.566	52986	13	0.892	19.308	53058	16	18.927	21.260
52771	27	2.278	14.553	52843	11	0.192	16.490	52915	16	11.538	17.322	52987	8	0.978	19.496	53059	9	19.322	21.599
52772	15	2.358	14.330	52844	22	0.416	16.830	52916	12	12.230	17.436	52988	12	1.038	19.286	53060	37	20.260	21.050
52773	8	2.800	14.668	52845	12	0.822	16.430	52917	12	12.501	17.585	52989	20	1.340	19.742	53061*	40	20.842	21.763
52774	15	2.870	14.870	52846	8	2.382	16.330	52918	8	12.763	17.944	52990	9	1.412	19.556	53062	23	21.609	21.020
52775	23	3.260	14.858	52847	10	2.532	16.192	52919	15	12.942	17.534	52991	12	3.946	19.960	53063	14	21.672	21.474
52776	14	3.970	14.584	52848	15	2.876	16.732	52920	14	13.454	17.337	52992*	46	4.972	19.072	53064	30	22.782	21.535
52777	14	4.064	14.213	52849	15	2.900	16.870	52921	17	16.172	17.791	52993	8	6.650	19.418	53065	11	24.059	21.911
52778	37	4.505	14.660	52850	10	2.952	16.956	52922	17	16.402	17.346	52994	19	7.069	19.800	53066	13	24.245	21.592
52779	16	5.124	14.963	52851	24	3.388	16.920	52923	14	16.521	17.534	52995	30	7.142	19.156	53067	10	24.342	21.108
52780	11	5.614	14.877	52852	31	3.682	16.936	52924	11	16.542	17.582	52996	12	7.358	19.178	53068	15	25.304	21.686
52781	21	5.683	14.438	52853	10	4.044	16.140	52925	16	18.192	17.361	52997	9	8.938	19.026	53069	40	0.009	22.764
52782	26	5.692	14.541	52854	24	4.210	16.230	52926	8	18.218	17.921	52998	20	9.458	19.700	53070	14	0.036	22.539
52783	23	5.811	14.747	52855*	38	4.356	16.532	52927	8	19.844	17.336	52999	8	11.383	19.774	53071	25	0.077	22.114
52784	12	5.907	14.190	52856	14	4.596	16.890	52928	33	19.861	17.090	53000	29	11.851	19.395	53072	8	0.080	22.362
52785	21	5.984	14.674	52857	20	4.598	16.103	52929	10	22.196	17.144	53001*	41	12.401	19.185	53073	24	0.088	22.970
52786	11	6.173	14.256	52858	16	4.727	16.608	52930	25	22.806	17.830	53002	10	13.134	19.337	53074	15	0.536	22.576
52787	10	6.850	14.728	52859	8	5.032	16.424	52931	10	23.664	17.970	53003	14	14.745	19.210	53075	16	1.492	22.193
52788	18	8.349	14.298	52860	20	5.556	16.431	52932	10	24.123	17.164	53004	18	16.942	19.853	53076	74	1.785	22.468
52789	15	9.200	14.688	52861	8	5.624	16.372	52933	12	0.027	18.869	53005	8	17.233	19.228	53077	39	1.823	22.295
52790	11	9.530	14.214	52862	26	5.782	16.998	52934	32	0.040	18.648	53006	13	18.582	19.790	53078	15	2.282	22.284
52791	8	9.895	14.048	52863	8	6.084	16.269	52935	13	0.318	18.346	53007	21	18.706	19.610	53079	13	2.332	22.110
52792	34	10.792	14.047	52864	14	6.168	16.626	52936	25	0.520	18.790	53008*	44	21.602	19.454	53080*	35	2.350	22.047
52793	10	11.746	14.415	52865	9	7.034	16.926	52937	28	0.538	18.240	53009	11	23.900	19.103	53081	16	2.984	22.953
52794	31	12.278	14.866	52866	20	7.666	16.014	52938	71	0.730	18.550	53010	10	24.335	19.731	53082	26	3.792	22.722
52795	19	12.845	14.926	52867	17	8.583	16.512	52939	8	2.032	18.411	53011*	50	24.922	19.487	53083	9	3.846	22.411
52796	24	16.219	14.360	52868	25	8.660	16.673	52940	13	2.372	18.676	53012	24	0.538	20.556	53084	16	4.470	22.346
52797	13	17.094	14.947	52869	17	8.926	16.894	52941	18	2.480	18.161	53013	31	1.578	20.767	53085	29	4.922	22.801
52798	16	18.056	14.388	52870	17	9.376	16.686	52942	14	2.530	18.982	53014	10	2.016	20.450	53086	20	8.082	22.413
52799	15	18.598	14.620	52871	17	9.944	16.386	52943	19	2.876	18.614	53015	30	2.376	20.376	53087	11	8.684	22.914
52800*	34	19.812	14.232	52872	21	10.603	16.070	52944	25	2.934	18.380	53016	18	2.983	20.497	53088	25	9.052	22.239
52801	26	22.357	14.410	52873	11	10.920	16.510	52945	24	2.939	18.970	53017*	64	4.189	20.369	53089	8	11.204	22.568
52802	8	23.140	14.802	52874	8	11.088	16.976	52946*	42	3.236	18.686	53018*	48	4.234	20.332	53090	26	11.485	22.709
52803	52	25.651	14.193	52875	10	12.017	16.198	52947	8	3.838	18.102	53019	17	4.864	20.535	53091	9	11.676	22.742
52804	8	0.146	15.408	52876	33	12.394	16.370	52948	9	4.068	18.834	53020	10	5.509	20.214	53092	29	13.354	22.988
52805	11	0.210	15.780	52877	22	12.587	16.530	52949	8	4.681	18.038	53021	14	6.360	20.574	53093	8	17.128	22.025
52806	8	0.918	15.557	52878	20	15.007	16.860	52950	21	4.836	18.533	53022	20	6.388	20.061	53094	9	17.714	22.648
52807	11	2.132	15.963	52879	11	18.132	16.295	52951	14	5.042	18.162	53023	12	7.900	20.268	53095	11	17.718	22.691
52808	25	2.184	15.222	52880	23	20.516	16.302	52952	8	5.175	18.890	53024	29	8.207	20.933	53096	11	18.114	22.094
52809	8	2.234	15.502	52881*	41	20.816	16.433	52953	9	5.230	18.496	53025*	35	8.560	20.035	53097	28	19.482	22.262
52810	13	2.558	15.416	52882*	38	21.924	16.402	52954	9	5.255	18.466	53026	9	9.782	20.208	53098	10	20.472	22.012
52811	13	3.148	15.297	52883	20	21.978	16.063	52955	21	5.876	18.550	53027	13	10.557	20.180	53099	8	20.502	22.105
52812	10	3.850	15.602	52884	8	22.689	16.280	52956	19	6.706	18.420	53028	34	10.608	20.260	53100	21	20.520	22.853
52813*	57	4.348	15.132	52885	8	22.968	16.371	52957	21	6.990	18.027	53029	10	11.219	20.480	53101	24	20.547	22.927
52814	8	4.562	15.868	52886	14	24.528	16.637	52958*	27	7.080	18.546	53030	8	15.856	20.401	53102	18	21.603	22.545
52815	25	4.791	15.970	52887	10	24.902	16.973	52959	10	7.101	18.951	53031	34	19.836	20.372	53103	13	21.645	22.905
52816	8	5.072	15.061	52888	15	0.583	17.170	52960	19	7.270	18.566	53032	37	20.709	20.526	53104	21	22.550	22.936
52817*	44	6.214	15.680	52889	8	0.818	17.902	52961	9	7.270	18.278	53033	10	21.080	20.394	53105	10	23.316	22.228
52818	14	6.280	15.430	52890	12	1.274	17.515	52962	8	7.667	18.660	53034	11	23.481	20.070	53106	30	23.352	22.407
52819	23	6.704	15.284	52891	26	1.487	17.646	52963	16	7.771	18.246	53035	10	23.674	20.534	53107	14	24.986	22.328
52820	18	6.764	15.266	52892	19</														

53118	8	19°345	23°552	53190	33	22°308	25°508	53241	8	20°212	0°516	53313	8	1°846	2°323	53385	42	9°916	3°504
53119	8	19°528	23°477	53191	15	23°932	25°992	53242	8	20°266	0°628	53314	8	1°871	2°852	53386	8	10°036	3°882
53120	13	20°210	23°272	53192	34	24°268	25°168	53243	8	20°300	0°923	53315	40	2°059	2°044	53387	10	10°636	3°234
53121	12	20°450	23°494	53193	28	25°327	25°008	53244	8	20°546	0°331	53316	13	2°164	2°108	53388	8	10°752	3°019
53122	27	21°126	23°431	53194	12	25°686	25°280	53245	10	20°564	0°186	53317	8	2°426	2°527	53389	9	11°516	3°476
53123	11	21°494	23°358	53195	30	25°782	25°762	53246	8	20°636	0°595	53318	35	2°688	2°140	53390	8	11°985	3°082
53124	15	22°014	23°278					53247	18	20°658	0°720	53319	8	2°708	2°919	53391	8	12°184	3°264
53125	11	22°220	23°425					53248	8	20°674	0°346	53320	10	3°217	2°182	53392	8	12°489	3°425
53126	26	22°668	23°998					53249	16	20°681	0°694	53321	8	3°332	2°827	53393	11	12°913	3°473
53127	15	22°950	23°776					53250	10	20°686	0°756	53322	10	3°751	2°419	53394	8	13°373	3°689
53128	30	23°800	23°009					53251	8	20°780	0°373	53323	9	4°296	2°226	53395	8	14°780	3°388
53129	16	23°874	23°701					53252	10	20°797	0°656	53324	10	4°544	2°187	53396	30	15°389	3°760
53130	19	24°189	23°656					53253	9	21°097	0°736	53325	12	4°854	2°041	53397	8	16°605	3°441
53131	9	24°972	23°852					53254	10	21°169	0°545	53326	10	5°110	2°089	53398	10	16°826	3°819
53132	9	25°662	23°282					53255	10	21°178	0°576	53327	8	5°151	2°516	53399	8	17°516	3°882
53133	23	0°716	24°848					53256	8	21°207	0°904	53328	8	5°666	2°926	53400	8	17°706	3°514
53134	21	2°379	24°576					53257	29	21°212	0°016	53329	10	5°884	2°321	53401	8	18°848	3°753
53135	10	2°532	24°594					53258	8	21°296	0°803	53330	12	6°302	2°596	53402	32	20°563	3°831
53136	11	4°641	24°620					53259	12	23°236	0°335	53331	10	8°286	2°192	53403	20	21°235	3°835
53137	20	5°464	24°422					53260	8	23°422	0°816	53332	46	8°602	2°909	53404	25	23°980	3°163
53138	23	5°948	24°312					53261	8	23°965	0°332	53333	12	9°636	2°262	53405	9	24°336	3°633
53139	12	6°082	24°527					53262*	62	24°844	0°488	53334	8	9°729	2°140	53406	8	25°219	3°224
53140	11	6°508	24°322					53263	62	25°714	0°764	53335	52	10°207	2°687	53407	8	0°406	4°606
53141	19	6°784	24°451					53264	16	0°168	1°476	53336	8	10°320	2°732	53408	40	0°744	4°666
53142	8	7°132	24°827					53265	8	1°945	1°862	53337	44	10°320	2°370	53409	8	1°496	4°451
53143	25	7°578	24°078					53266	8	2°130	1°829	53338	9	10°382	2°132	53410	38	1°587	4°086
53144	21	9°918	24°976					53267	22	2°134	1°956	53339	8	10°678	2°016	53411	14	2°324	4°448
53145	10	10°014	24°800					53268	11	3°985	1°966	53340	8	10°956	2°723	53412	12	3°502	4°378
53146	12	10°262	24°776					53269	9	4°402	1°373	53341	17	11°035	2°222	53413	10	3°828	4°997
53147	27	10°737	24°492					53270	9	5°401	1°889	53342	8	11°538	2°544	53414	31	4°345	4°116
53148	18	11°100	24°182					53271	16	7°638	1°284	53343	13	11°651	2°864	53415	13	4°806	4°835
53149	15	11°272	24°682					53272	9	8°614	1°855	53344	8	11°661	2°228	53416	19	5°324	4°162
53150	11	11°732	24°275					53273	8	8°844	1°776	53345	8	11°704	2°900	53417	8	5°445	4°468
53151	17	12°510	24°420					53274	17	8°884	1°774	53346	24	11°735	2°963	53418*	65	5°515	4°564
53152	14	12°956	24°510					53275	20	8°894	1°016	53347	10	13°383	2°399	53419	8	5°786	4°739
53153	31	16°124	24°627					53276	19	9°029	1°156	53348	44	14°344	2°112	53420	8	5°975	4°845
53154	21	18°555	24°292					53277	11	9°218	1°374	53349	14	14°686	2°969	53421	8	6°192	4°608
53155	13	19°092	24°560					53278*	64	9°345	1°054	53350	33	15°246	2°695	53422	13	6°317	4°802
53156	13	20°912	24°106					53279	31	9°925	1°437	53351	12	15°256	2°027	53423	8	6°781	4°646
53157	8	20°949	24°721					53280	10	10°054	1°674	53352	10	16°154	2°988	53424	23	7°011	4°095
53158	14	22°359	24°908					53281	20	10°136	1°802	53353	20	17°232	2°330	53425	14	7°080	4°434
53159	9	22°372	24°488					53282	8	10°159	1°464	53354	8	17°236	2°929	53426	8	7°384	4°975
53160	11	22°408	24°408					53283	11	11°032	1°360	53355	13	17°734	2°998	53427	8	8°167	4°126
53161	20	22°528	24°300					53284	24	11°085	1°253	53356	8	18°437	2°447	53428	8	8°664	4°636
53162	8	22°578	24°349					53285	8	11°828	1°202	53357	15	18°849	2°253	53429	11	9°802	4°312
53163	25	24°382	24°590					53286	11	11°906	1°075	53358	12	19°815	2°797	53430	14	12°096	4°396
53164	26	24°989	24°916					53287	8	12°075	1°401	53359	9	20°815	2°093	53431	10	12°189	4°205
53165	32	0°582	25°837					53288	14	12°265	1°626	53360	9	21°906	2°921	53432	8	12°852	4°976
53166	8	0°942	25°558					53289	17	13°545	1°246	53361	8	21°942	2°608	53433	10	13°150	4°962
53167	11	1°190	25°855					53290	8	13°597	1°113	53362	11	21°985	2°258	53434	9	13°345	4°245
53168	18	4°280	25°026					53291	8	13°946	1°555	53363	8	22°686	2°494	53435	8	15°110	4°520
53169	14	4°700	25°726					53292	8	14°901	1°486	53364	8	23°674	2°880	53436	40	15°411	4°016
53170	9	5°140	25°560					53293	8	15°848	1°816	53365	33	24°402	2°046	53437*	43	15°800	4°400
53171	8	6°328	25°039					53294	40	17°015	1°930	53366	10	25°194	2°378	53438	10	16°208	4°804
53172	23	7°298	25°910					53295	8	18°349	1°344	53367	8	25°422	2°386	53439	10	16°792	4°525
53173	8	7°742	25°442					53296	9	18°976	1°933	53368	9	1°319	3°355	53440	22	17°386	4°068
53174	17	8°038	25°598					53297	9	19°148	1°014	53369	9	2°760	3°322	53441	10	17°552	4°728
53175	11	10°236	25°972					53298	8	19°596	1°045	53370	42	3°554	3°010	53442	8	18°557	4°760
53176	10	10°283	25°787					53299	13	20°101	1°630	53371	24	3°736	3°050	53443	46	18°907	4°164
53177	8	10°518	25°881					53300	8	20°555	1°558	53372	8	4°225	3°595	53444	9	20°783	4°763
53178	24	11°963	25°107					53301	9	20°764	1°177	53373	31	4°741	3°289	53445	12	21°124	4°301
53179	10	16°412	25°512					53302	8	20°972	1°264	53374*	65	4°805	3°609	53446	8	21°538	4°374
53180	27	16°588	25°410					53303	8	21°346	1°424	53375	12	5°082	3°286	53447	17	21°991	4°513
53181	19	16°802	25°734					53304	8	21°718	1°596	53376	49	6°306	3°355	53448	8	22°200	4°976
53182	18	16°970	25°072					53305	8	21°787	1°575	53377	8	6°574	3°888	53449	39	22°255	4°794
53183	16	17°456	25°850					53306	18	22°884	1°136	53378	27	6°618	3°226	53450	10	22°364	4°038
53184	8	17°840	25°952					53307	24	23°044	1°676	53379	8	8°167	3°437	53451	10	25°984	4°552
53185	8	18°052	25°091					53308	11	24°554	1°384	53380	10	8°923	3°354	53452	13	0°126	5°932
53186	9	18°902	25°818					53309	8	0°700	2°616	53381	8	9°081	3°280	53453	20	0°200	5°897
53187	14	19°165	25°240					53310	8	1°404	2°301	53382	8	9°431	3°562	53454	9	1°020	5°894
53188	25	19°816	25°464					53311											

53457	14	3°594	5°598	53529	8	0°034	7°262	53601	9	7°675	8°527	53673	8	21°718	9°714	53745	9	5°892	11°624
53458	9	4°603	5°541	53530	45	0°119	7°355	53602	8	7°850	8°384	53674	14	23°076	9°430	53746	8	6°370	11°660
53459*	43	5°254	5°095	53531	17	0°139	7°121	53603	20	8°345	8°513	53675	8	24°016	9°406	53747	11	6°503	11°218
53460	22	5°344	5°363	53532	8	0°465	7°184	53604	8	8°792	8°613	53676	8	24°926	9°094	53748	8	6°666	11°764
53461	21	5°498	5°136	53533	8	0°784	7°084	53605	9	10°298	8°682	53677	24	24°955	9°656	53749	10	7°175	11°715
53462	8	5°534	5°351	53534	8	1°412	7°501	53606	9	10°625	8°016	53678	22	25°064	9°606	53750	21	7°596	11°162
53463	15	5°620	5°247	53535	10	2°664	7°346	53607	8	11°111	8°256	53679	8	25°080	9°600	53751	40	8°566	11°915
53464	23	5°714	5°197	53536	9	2°882	7°806	53608	10	11°204	8°124	53680	33	25°113	9°265	53752	10	8°602	11°136
53465	10	6°293	5°215	53537	8	3°244	7°476	53609	8	11°324	8°213	53681	8	25°797	9°327	53753	8	8°726	11°817
53466	8	6°364	5°134	53538	20	3°635	7°977	53610	8	11°386	8°712	53682	8	26°063	10°418	53754	8	8°750	11°171
53467	12	6°536	5°215	53539	8	4°046	7°224	53611	8	12°014	8°223	53683	10	1°314	10°735	53755	8	8°806	11°594
53468	10	6°572	5°046	53540	8	4°321	7°462	53612	8	12°255	8°976	53684	8	2°026	10°093	53756	8	9°354	11°145
53469	8	9°644	5°425	53541	10	4°350	7°272	53613	10	12°591	8°484	53685	40	2°520	10°532	53757	8	10°328	11°906
53470*	41	12°046	5°466	53542	8	4°685	7°784	53614	9	13°052	8°284	53686	8	3°204	10°446	53758	25	10°380	11°514
53471	8	12°754	5°036	53543	8	4°769	7°366	53615	12	13°304	8°953	53687	28	3°228	10°076	53759	8	10°724	11°711
53472	9	12°760	5°375	53544	9	5°174	7°413	53616	10	14°130	8°600	53688	33	4°099	10°974	53760	8	13°148	11°772
53473	12	12°884	5°476	53545	20	5°586	7°092	53617	8	14°250	8°167	53689	9	4°487	10°376	53761	9	13°315	11°778
53474	12	13°078	5°626	53546	8	6°774	7°833	53618	10	15°316	8°970	53690	8	4°860	10°176	53762	18	14°152	11°851
53475	10	15°974	5°635	53547	8	6°804	7°266	53619	10	15°786	8°392	53691	8	5°791	10°645	53763	9	14°953	11°066
53476	8	16°834	5°676	53548	8	7°874	7°714	53620	14	18°192	8°338	53692	16	6°310	10°675	53764	8	16°420	11°941
53477	8	16°925	5°307	53549	22	9°058	7°758	53621	9	20°018	8°608	53693	8	6°334	10°864	53765	10	16°852	11°090
53478	11	18°515	5°186	53550	11	9°346	7°784	53622	11	20°165	8°566	53694	11	6°574	10°502	53766	8	18°154	11°806
53479	8	18°576	5°954	53551	8	9°586	7°892	53623	9	21°416	8°828	53695	23	6°642	10°638	53767	8	18°190	11°236
53480	8	18°676	5°274	53552	9	9°734	7°696	53624	25	23°721	8°296	53696	11	6°689	10°233	53768	8	19°234	11°676
53481	8	19°593	5°915	53553	25	9°928	7°025	53625	10	25°255	8°546	53697	8	7°238	10°393	53769	8	20°154	11°588
53482	10	19°812	5°905	53554	8	10°417	7°157	53626	9	0°815	9°391	53698	8	7°336	10°878	53770	10	20°356	11°551
53483	8	20°332	5°713	53555	10	10°654	7°632	53627	12	1°294	9°376	53699*	91	7°593	10°675	53771	11	20°457	11°620
53484	8	21°322	5°386	53556	8	15°618	7°676	53628	10	2°074	9°675	53700	42	7°916	10°424	53772	27	22°569	11°694
53485	12	24°592	5°574	53557	18	15°802	7°535	53629	8	2°200	9°496	53701	11	8°020	10°112	53773	10	23°938	11°985
53486	10	25°099	5°726	53558	10	17°162	7°399	53630	11	2°310	9°962	53702	8	8°233	10°834	53774	8	24°623	11°507
53487	11	25°143	5°254	53559	10	17°733	7°628	53631	11	3°244	9°265	53703	22	9°566	10°266	53775	25	24°635	11°666
53488	8	25°597	5°585	53560	16	17°935	7°019	53632	10	3°598	9°220	53704	8	9°726	10°145	53776	20	0°248	12°834
53489	10	0°766	6°592	53561	8	18°325	7°454	53633	9	3°925	9°218	53705	8	10°790	10°224	53777	9	1°504	12°154
53490	10	2°178	6°752	53562	11	18°806	7°542	53634	25	4°236	9°578	53706	12	10°926	10°768	53778	9	1°872	12°424
53491	16	2°968	6°302	53563	11	18°956	7°804	53635	20	4°525	9°232	53707	10	10°946	10°155	53779	8	2°338	12°542
53492	11	3°878	6°247	53564	10	19°179	7°882	53636	10	4°936	9°434	53708	12	11°072	10°900	53780	10	2°467	12°758
53493	8	4°096	6°456	53565	8	20°024	7°475	53637	11	5°327	9°063	53709	8	11°188	10°278	53781	8	2°478	12°303
53494	13	4°986	6°799	53566	8	20°034	7°945	53638	8	5°629	9°916	53710	20	13°176	10°055	53782	8	2°667	12°376
53495	10	5°142	6°273	53567	8	20°860	7°090	53639	12	5°936	9°784	53711	32	15°551	10°478	53783	8	2°981	12°396
53496	8	5°448	6°146	53568	12	23°715	7°936	53640	8	6°465	9°268	53712*	42	16°974	10°515	53784	8	3°067	12°769
53497	10	5°569	6°538	53569	8	23°787	7°456	53641	16	6°576	9°064	53713	27	17°460	10°620	53785	8	3°091	12°870
53498	8	6°268	6°897	53570*	60	24°614	7°767	53642	34	7°007	9°012	53714	12	17°704	10°391	53786	11	3°469	12°414
53499	14	6°344	6°407	53571	10	24°664	7°706	53643	8	7°117	9°464	53715	8	17°864	10°285	53787	10	3°510	12°721
53500	35	6°421	6°098	53572	13	24°754	7°616	53644	8	7°160	9°248	53716	13	17°976	10°836	53788	8	3°733	12°098
53501	8	6°542	6°725	53573	15	24°983	7°015	53645	8	7°326	9°846	53717	8	18°994	10°364	53789	8	3°824	12°753
53502	12	8°835	6°240	53574	9	0°051	8°160	53646	8	7°454	9°962	53718	8	19°914	10°804	53790	23	4°138	12°285
53503	8	9°745	6°514	53575	9	0°224	8°568	53647	13	7°785	9°991	53719	12	20°346	10°812	53791	18	4°589	12°873
53504	12	9°835	6°726	53576	8	0°618	8°364	53648	10	7°815	9°600	53720	8	21°875	10°696	53792	10	5°004	12°726
53505	20	9°931	6°067	53577	8	0°839	8°826	53649	8	8°048	9°316	53721	13	22°269	10°065	53793	8	5°076	12°869
53506	8	11°862	6°663	53578	8	0°974	8°580	53650	16	8°446	9°335	53722	8	22°487	10°163	53794	10	5°428	12°056
53507	14	13°656	6°358	53579	9	0°980	8°778	53651	8	8°636	9°556	53723	16	22°930	10°298	53795	9	5°564	12°674
53508	24	13°901	6°957	53580	22	1°514	8°592	53652	8	8°815	9°774	53724	8	23°142	10°184	53796	8	6°397	12°656
53509	9	14°014	6°184	53581	11	1°657	8°014	53653	15	9°194	9°634	53725	8	23°381	10°022	53797	29	6°487	12°181
53510	8	14°133	6°656	53582	25	2°106	8°886	53654	20	9°246	9°619	53726	14	24°052	10°717	53798	10	7°070	12°246
53511	8	14°380	6°920	53583	8	2°907	8°664	53655	8	9°542	9°516	53727	9	25°345	10°796	53799	10	7°348	12°018
53512	8	15°088	6°896	53584	9	3°958	8°146	53656	8	10°850	9°944	53728	9	25°606	10°645	53800	8	7°824	12°156
53513	16	15°133	6°012	53585*	60	4°046	8°958	53657	8	11°046	9°165	53729	8	0°762	11°676	53801	8	7°898	12°585
53514	37	15°352	6°955	53586	8	4°271	8°175	53658	8	11°084	9°554	53730	8	2°378	11°986	53802	8	8°154	12°605
53515	8	17°846	6°847	53587	8	4°496	8°355	53659	22	11°418	9°608	53731	8	2°492	11°760	53803	31	8°366	12°450
53516	9	18°163	6°293	53588	10	4°787	8°386	53660	23	12°502	9°486	53732	12	2°975	11°628	53804	10	8°884	12°109
53517	35	18°296	6°198	53589	14	4°835	8°816	53661	18	12°928	9°811	53733	14	3°142	11°070	53805	8	9°113	12°176
53518	12	19°012	6°036	53590	13	5°114	8°812	53662	28	13°304	9°297	53734	8	3°656	11°622	53806	10	9°754	12°901
53519	16	19°690	6°415	53591	11	5°314	8°629	53663	10	14°340	9°958	53735	8	3°664	11°028	53807	8	10°025	12°896
53520	10	20°656	6°833	53592	8	5°444	8°483	53664	8	14°442	9°384	53736	8	3°906	11°416	53808	8		

53817	8	14.059	12.652	53889	11	4.984	14.414	53961	9	0.938	16.055	54033	8	10.402	17.626	54105	8	1.485	19.177
53818	10	14.476	12.785	53890	8	5.127	14.406	53962	10	1.220	16.908	54034	10	10.405	17.597	54106	13	2.126	19.555
53819	9	18.412	12.889	53891	8	5.340	14.796	53963	10	1.898	16.987	54035	8	11.153	17.195	54107	8	2.439	19.916
53820	16	19.824	12.348	53892	20	5.678	14.406	53964	17	2.304	16.460	54036	12	11.584	17.736	54108	8	2.584	19.693
53821	8	20.201	12.748	53893	11	6.936	14.086	53965	13	2.677	16.795	54037	24	11.608	17.876	54109*	60	2.706	19.305
53822	8	20.416	12.898	53894	10	6.984	14.446	53966	8	3.062	16.554	54038	21	11.710	17.682	54110	10	2.907	19.902
53823	10	20.701	12.748	53895	25	7.096	14.204	53967	9	3.095	16.558	54039	21	12.154	17.632	54111	8	2.954	19.512
53824	8	20.834	12.929	53896	12	8.146	14.494	53968	9	3.214	16.996	54040	9	12.307	17.250	54112	10	3.526	19.885
53825	8	21.076	12.600	53897	13	8.305	14.793	53969	9	3.334	16.884	54041	9	13.200	17.987	54113	8	4.154	19.276
53826	9	22.804	12.856	53898	12	10.143	14.970	53970	18	3.995	16.564	54042	8	13.386	17.167	54114	9	4.297	19.516
53827	40	24.059	12.316	53899	8	11.662	14.266	53971	36	4.096	16.762	54043	23	13.485	17.079	54115*	37	4.866	19.768
53828	9	24.930	12.642	53900	11	12.158	14.024	53972	20	4.736	16.986	54044	11	13.752	17.284	54116	8	5.046	19.278
53829	22	1.265	13.205	53901	11	12.372	14.582	53973*	47	4.868	16.955	54045	12	14.955	17.312	54117	9	5.194	19.701
53830	8	1.324	13.716	53902	8	12.771	14.936	53974	8	5.104	16.996	54046	8	15.753	17.764	54118	8	5.482	19.766
53831	11	1.545	13.776	53903	10	13.200	14.717	53975	10	5.955	16.935	54047	8	15.924	17.262	54119	9	5.924	19.174
53832	23	1.614	13.177	53904	24	13.250	14.503	53976	10	7.030	16.228	54048	9	16.024	17.396	54120	18	6.535	19.752
53833	11	1.864	13.315	53905	10	15.465	14.782	53977	8	7.336	16.205	54049	8	16.240	17.454	54121	8	6.604	19.829
53834	11	2.056	13.377	53906	9	16.236	14.972	53978	8	8.897	16.314	54050*	120	17.270	17.796	54122	8	7.038	19.704
53835	8	2.427	13.164	53907	8	18.764	14.034	53979	8	9.924	16.562	54051	10	17.650	17.964	54123	8	7.598	19.916
53836	8	2.446	13.192	53908	8	18.900	14.608	53980	8	10.144	16.791	54052*	42	20.095	17.278	54124	8	8.144	19.914
53837	9	2.484	13.077	53909	8	19.027	14.503	53981	8	10.216	16.832	54053	10	21.136	17.086	54125	8	8.385	19.175
53838	9	2.546	13.381	53910	8	22.812	14.927	53982	11	10.454	16.266	54054*	77	22.075	17.450	54126	8	8.522	19.914
53839	10	2.774	13.645	53911	8	22.928	14.741	53983	8	11.128	16.075	54055	8	24.936	17.478	54127	9	8.538	19.616
53840	24	3.204	13.704	53912	10	24.440	14.943	53984	10	13.014	16.985	54056	10	25.582	17.575	54128	9	9.030	19.735
53841	8	3.533	13.290	53913	25	24.498	14.406	53985	10	13.069	16.986	54057	9	25.626	17.854	54129	12	9.735	19.489
53842	8	4.265	13.616	53914	8	25.645	14.000	53986	40	13.183	16.195	54058	9	25.742	17.640	54130	8	10.174	19.335
53843	10	4.810	13.076	53915	25	25.830	14.246	53987	8	13.748	16.112	54059	8	0.798	18.113	54131	14	10.386	19.371
53844	8	5.226	13.454	53916	8	0.712	15.773	53988	8	14.085	16.181	54060	8	0.926	18.503	54132	8	10.708	19.666
53845	8	5.374	13.230	53917	9	1.714	15.395	53989	12	15.385	16.626	54061	8	0.983	18.496	54133	8	11.183	19.104
53846	12	5.619	13.875	53918	8	1.814	15.226	53990	8	16.672	16.646	54062	16	1.685	18.933	54134	8	12.213	19.700
53847	8	5.633	13.382	53919	8	2.451	15.943	53991	11	16.724	16.584	54063	11	2.462	18.625	54135	8	12.346	19.603
53848	8	5.675	13.659	53920	20	3.962	15.342	53992*	58	17.148	16.161	54064	9	2.494	18.604	54136	10	12.926	19.154
53849	10	6.814	13.210	53921	40	3.968	15.700	53993	8	17.786	16.729	54065	10	3.962	18.840	54137	10	13.211	19.154
53850	8	7.194	13.518	53922	8	4.244	15.618	53994	10	17.806	16.923	54066	9	4.135	18.536	54138	10	13.905	19.834
53851	8	7.226	13.830	53923	26	4.322	15.540	53995	10	18.452	16.903	54067	18	4.216	18.035	54139	9	13.914	19.140
53852	14	7.510	13.410	53924	15	4.328	15.534	53996	22	18.518	16.836	54068	9	4.524	18.624	54140	8	14.546	19.294
53853	8	7.564	13.577	53925	9	4.712	15.098	53997	11	19.586	16.325	54069	10	4.553	18.884	54141	8	14.614	19.547
53854	8	8.636	13.150	53926	38	5.137	15.732	53998	14	19.798	16.745	54070	8	4.796	18.933	54142	8	14.696	19.246
53855	8	9.535	13.873	53927	8	5.575	15.711	53999	10	22.140	16.317	54071*	49	4.995	18.779	54143	11	14.705	19.644
53856	32	9.625	13.724	53928	9	5.806	15.408	54000	31	24.575	16.210	54072	8	5.526	18.376	54144	8	15.398	19.878
53857	9	9.896	13.363	53929	22	5.806	15.696	54001	20	24.880	16.482	54073	17	7.136	18.295	54145	8	16.788	19.700
53858	8	10.485	13.215	53930	10	5.928	15.868	54002	10	24.959	16.730	54074	8	7.155	18.584	54146	8	17.437	19.726
53859	10	10.797	13.567	53931	8	6.346	15.602	54003	46	25.742	16.774	54075	8	7.218	18.216	54147	8	18.535	19.713
53860	9	10.950	13.686	53932	9	6.520	15.252	54004	8	0.041	17.787	54076	8	7.794	18.543	54148	16	18.942	19.328
53861	24	11.835	13.436	53933	10	6.746	15.024	54005	25	0.584	17.664	54077	9	7.966	18.425	54149	10	20.959	19.044
53862	9	12.640	13.089	53934	8	7.400	15.480	54006	8	0.885	17.579	54078	8	8.078	18.014	54150	8	21.354	19.618
53863	8	12.984	13.712	53935	20	7.985	15.343	54007	11	1.446	17.800	54079	8	9.300	18.522	54151	11	22.047	19.865
53864	8	15.134	13.619	53936	9	9.047	15.594	54008	10	2.044	17.216	54080*	40	9.910	18.965	54152	9	22.372	19.860
53865	21	15.204	13.333	53937	8	9.470	15.666	54009	38	2.905	17.988	54081	10	11.185	18.665	54153	8	24.034	19.824
53866	8	16.069	13.057	53938	10	9.582	15.975	54010	8	3.152	17.316	54082	18	11.240	18.767	54154	10	24.690	19.746
53867	10	16.495	13.027	53939	8	10.914	15.572	54011	14	3.341	17.826	54083	10	11.304	18.921	54155	8	25.070	19.161
53868	39	17.634	13.152	53940	20	11.376	15.193	54012	21	4.096	17.581	54084	8	12.464	18.624	54156	22	25.559	19.935
53869	10	17.761	13.312	53941	10	12.135	15.457	54013	8	4.126	17.155	54085	9	13.112	18.064	54157	8	0.876	20.908
53870	8	18.179	13.586	53942	10	12.674	15.285	54014	8	4.132	17.124	54086	11	13.195	18.806	54158	8	1.278	20.492
53871	8	18.426	13.940	53943	8	12.852	15.332	54015	12	4.228	17.745	54087	22	13.696	18.720	54159	8	1.416	20.266
53872	30	19.025	13.465	53944	40	13.359	15.912	54016	12	4.635	17.125	54088	10	14.264	18.335	54160	12	1.468	20.362
53873	9	19.914	13.284	53945	8	13.458	15.720	54017	8	4.688	17.295	54089	8	14.592	18.145	54161	14	1.634	20.971
53874	18	21.131	13.396	53946	20	14.042	15.926	54018	8	5.522	17.564	54090	8	14.895	18.769	54162	8	1.772	20.670
53875	8	21.142	13.549	53947	24	15.087	15.904	54019*	40	5.744	17.394	54091	8	15.174	18.894	54163	10	2.144	20.934
53876	8	22.632	13.350	53948	8	15.564	15.764	54020	27	6.160	17.526	54092	11	15.187	18.253	54164	8	3.045	20.847
53877	10	22.648	13.440	53949	8	15.775	15.080	54021	8	6.512	17.427	54093	8	17.202	18.838	54165	8	3.074	20.546
53878	18	22.730	13.064	53950	8	16.208	15.034	54022	10	6.641	17.904	54094	10	17.890	18.804	54166	20	3.318	20.646
53879	16	25.435	13.312	53951	12	17.900	15.390	54023	9	7.305	17.755	54095	9	19.014	18.25				

54177	8	8.264	20.136	54249	21	15.907	21.572	54321	8	20.695	22.345	54393	9	0.394	24.176	54465	23	24.656	24.918
54178	10	9.259	20.802	54250	12	16.361	21.996	54322	8	21.536	22.105	54394	8	1.823	24.248	54466	38	0.128	25.343
54179	10	9.443	20.764	54251	24	16.754	21.964	54323	11	22.927	22.384	54395	37	2.088	24.988	54467	18	1.760	25.816
54180	9	9.548	20.373	54252	8	17.414	21.650	54324	36	23.083	22.058	54396	27	2.200	24.414	54468	15	1.829	25.789
54181	8	10.223	20.710	54253	11	17.936	21.386	54325	9	23.992	22.774	54397	27	2.806	24.735	54469	8	1.958	25.725
54182	10	11.048	20.524	54254	10	18.128	21.465	54326	8	25.037	22.048	54398	35	3.148	24.826	54470	12	2.985	25.966
54183	10	11.228	20.415	54255	35	18.215	21.920	54327	28	25.985	22.817	54399	8	3.494	24.124	54471	8	3.335	25.224
54184	8	11.251	20.155	54256	8	18.955	21.776	54328	10	0.032	23.260	54400	12	4.501	24.420	54472	8	3.428	25.444
54185	10	11.314	20.211	54257	12	19.556	21.796	54329	30	0.483	23.829	54401	11	5.376	24.876	54473	12	3.512	25.094
54186	36	11.755	20.888	54258	34	19.863	21.354	54330	8	0.572	23.302	54402*	60	5.476	24.165	54474	40	3.604	25.576
54187	23	11.823	20.192	54259	28	20.234	21.085	54331	8	0.688	23.314	54403	8	5.675	24.986	54475	12	3.666	25.193
54188	8	11.874	20.486	54260	11	21.011	21.535	54332	13	0.765	23.606	54404	8	6.020	24.754	54476	40	4.302	25.316
54189	23	12.106	20.159	54261	8	21.985	21.594	54333	8	1.018	23.650	54405	33	6.035	24.774	54477	8	4.660	25.850
54190	13	12.345	20.936	54262	40	22.275	21.126	54334	14	1.688	23.526	54406	8	6.389	24.244	54478	10	5.191	25.510
54191	8	12.450	20.676	54263	10	22.424	21.330	54335	8	1.832	23.794	54407	12	6.734	24.904	54479	8	5.296	25.700
54192	18	12.602	20.561	54264	8	25.701	21.354	54336	10	1.860	23.840	54408	11	6.828	24.533	54480	26	5.498	25.707
54193	8	12.632	20.075	54265	8	25.703	21.120	54337	12	2.002	23.478	54409	10	7.106	24.985	54481	12	5.964	25.752
54194	22	12.710	20.074	54266	8	0.268	22.060	54338	10	2.786	23.668	54410	20	7.128	24.418	54482	11	6.090	25.765
54195	12	12.915	20.046	54267	24	0.356	22.769	54339	8	3.025	23.306	54411	15	7.386	24.146	54483	12	6.164	25.774
54196	8	12.954	20.506	54268	8	0.764	22.916	54340	8	3.166	23.696	54412	9	7.584	24.315	54484	11	6.195	25.974
54197	11	13.225	20.318	54269	11	1.121	22.056	54341	8	3.180	23.994	54413	21	7.602	24.265	54485	10	6.888	25.422
54198	8	13.634	20.324	54270	8	1.141	22.650	54342	10	3.475	23.098	54414	8	8.227	24.520	54486	41	7.611	25.538
54199	10	14.346	20.004	54271	32	1.156	22.234	54343	8	3.620	23.400	54415	8	8.535	24.056	54487	8	7.615	25.445
54200	11	14.920	20.052	54272	8	1.418	22.144	54344	12	4.814	23.312	54416	15	8.795	24.617	54488	8	8.294	25.249
54201	9	15.274	20.335	54273	40	1.608	22.836	54345	18	5.124	23.374	54417	8	9.321	24.484	54489	8	8.688	25.436
54202	8	16.200	20.546	54274	8	2.394	22.356	54346	8	5.262	23.591	54418	8	9.965	24.225	54490	10	9.176	25.586
54203	10	17.794	20.377	54275	10	2.644	22.708	54347	9	5.315	23.224	54419*	44	10.452	24.290	54491	10	9.508	25.855
54204	25	18.746	20.055	54276	20	2.793	22.150	54348	8	5.336	23.210	54420	14	10.478	24.475	54492	18	9.856	25.851
54205	14	21.014	20.679	54277	8	3.169	22.496	54349	8	5.626	23.930	54421	10	10.528	24.715	54493	45	10.686	25.436
54206	8	21.148	20.174	54278	10	3.394	22.932	54350	10	6.501	23.606	54422	20	10.839	24.276	54494	8	11.436	25.060
54207	8	21.264	20.133	54279	9	4.364	22.454	54351	8	6.835	23.854	54423	11	11.245	24.093	54495	9	12.200	25.647
54208	14	21.388	20.206	54280	10	4.766	22.156	54352	12	7.513	23.216	54424	8	11.680	24.434	54496	8	12.215	25.526
54209	8	23.301	20.607	54281	10	5.030	22.132	54353	8	7.624	23.566	54425	23	11.846	24.591	54497	8	12.351	25.188
54210	10	24.244	20.756	54282	8	5.206	22.434	54354	8	7.693	23.816	54426	10	12.628	24.423	54498	12	13.076	25.654
54211	9	24.253	20.124	54283	8	6.244	22.867	54355	10	7.986	23.624	54427	8	12.752	24.955	54499	14	13.328	25.982
54212	8	24.654	20.038	54284	14	6.315	22.861	54356	8	8.086	23.338	54428	22	13.042	24.854	54500	11	13.338	25.709
54213	11	25.664	20.995	54285	9	6.428	22.044	54357	8	8.107	23.062	54429	8	13.166	24.840	54501	18	13.400	25.636
54214	36	0.580	21.367	54286	11	7.610	22.804	54358	40	8.324	23.049	54430	10	13.274	24.194	54502	10	13.846	25.014
54215	10	1.864	21.735	54287	8	8.266	22.186	54359	10	9.061	23.574	54431	8	13.959	24.326	54503	10	14.008	25.856
54216	12	2.045	21.416	54288	9	8.486	22.522	54360	8	9.867	23.540	54432	18	14.044	24.373	54504	23	14.053	25.238
54217	10	2.746	21.995	54289	8	8.540	22.900	54361	20	10.849	23.880	54433	8	14.228	24.924	54505	10	14.332	25.274
54218	16	3.106	21.505	54290	8	8.939	22.455	54362	8	10.955	23.454	54434	8	14.503	24.464	54506	8	14.448	25.855
54219	8	3.786	21.662	54291	21	8.965	22.575	54363	9	12.355	23.216	54435	9	15.758	24.328	54507	32	14.854	25.818
54220	9	5.858	21.298	54292	10	8.996	22.434	54364	23	12.665	23.654	54436	8	15.984	24.810	54508	40	15.101	25.228
54221	8	5.874	21.867	54293	10	9.003	22.264	54365	8	12.974	23.739	54437	8	16.038	24.475	54509	9	15.423	25.480
54222	24	5.896	21.523	54294	8	9.274	22.503	54366	11	13.164	23.634	54438	10	16.344	24.750	54510	9	15.762	25.716
54223	8	6.475	21.684	54295	11	9.511	22.825	54367	10	13.166	23.170	54439	11	16.464	24.784	54511	8	16.119	25.720
54224	8	6.878	21.782	54296	10	9.704	22.606	54368	10	13.995	23.581	54440	10	16.695	24.534	54512	13	16.120	25.050
54225	11	9.494	21.678	54297	8	9.782	22.748	54369	8	14.785	23.953	54441	8	16.890	24.548	54513	14	16.194	25.880
54226	9	9.600	21.652	54298	12	9.794	22.494	54370	10	14.854	23.682	54442	40	17.324	24.354	54514	32	16.315	25.996
54227	8	9.691	21.948	54299	8	9.982	22.686	54371	10	15.602	23.208	54443	18	17.340	24.562	54515	27	16.870	25.406
54228	10	9.977	21.658	54300	12	10.636	22.506	54372*	35	16.026	23.366	54444	8	17.455	24.457	54516	9	16.961	25.217
54229	8	10.806	21.944	54301	8	10.734	22.204	54373	29	16.818	23.086	54445	44	17.504	24.737	54517	11	17.047	25.091
54230	8	10.866	21.313	54302	8	11.526	22.757	54374*	64	16.907	23.666	54446	20	17.542	24.294	54518	36	17.049	25.654
54231	10	10.996	21.525	54303	10	11.964	22.296	54375	24	17.264	23.943	54447	12	17.624	24.007	54519	9	17.286	25.793
54232	8	11.029	21.636	54304	24	12.065	22.860	54376	40	17.406	23.154	54448	11	18.028	24.352	54520	17	17.324	25.804
54233	20	11.375	21.546	54305	8	12.474	22.214	54377	12	17.576	23.184	54449	34	18.166	24.688	54521	15	17.406	25.535
54234	8	11.489	21.694	54306	20	12.827	22.271	54378	15	18.416	23.556	54450	10	18.185	24.767	54522	15	17.406	25.514
54235	8	11.810	21.426	54307	8	12.874	22.927	54379	9	18.426	23.276	54451	8	18.345	24.961	54523	10	17.414	25.902
54236	22	12.186	21.306	54308	10	13.315	22.765	54380*	49	18.685	23.836	54452	8	18.826	24.484	54524	12	17.437	25.977
54237	34	12.478	21.394	54309	8	14.508	22.396	54381	10	18.766	23.218	54453	18	19.325	24.862	54525	60	17.706	25.831
54238	9	13.069	21.112	54310	8	14.779	22.295	54382	10	18.838	23.694	54454	43	19.875	24.528	54526	9	17.832	25.715
54239	8	13.226	21.492	54311	10	14.964	22.601	54383	8	18									

54537	34	19.685	25.782	54629	10	14.294	0.970	54701	9	12.330	2.258	54773	9	9.805	4.518	54845	20	15.978	6.723
54538	9	19.924	25.554	54630	16	14.488	0.132	54702	10	12.430	2.188	54774*	65	9.816	4.010	54846	8	16.196	6.840
54539	45	19.986	25.975	54631	8	14.698	0.534	54703	13	12.632	2.925	54775	9	11.403	4.375	54847	8	16.228	6.310
54540	38	20.106	25.254	54632	14	15.200	0.170	54704	24	13.922	2.688	54776	8	11.520	4.449	54848	10	16.292	6.520
54541	8	20.184	25.548	54633	10	17.660	0.162	54705	9	14.158	2.972	54777	8	11.790	4.787	54849	40	16.684	6.851
54542	8	20.425	25.755	54634	30	18.506	0.394	54706	8	14.276	2.035	54778	26	11.890	4.350	54850	8	17.530	6.082
54543	38	20.474	25.351	54635	8	19.170	0.445	54707	18	14.302	2.110	54779	21	12.372	4.328	54851	8	18.090	6.960
54544	22	20.492	25.998	54636	10	19.310	0.172	54708	24	15.794	2.317	54780	13	12.893	4.500	54852	14	19.111	6.011
54545	22	20.579	25.488	54637	42	20.616	0.854	54709	24	16.430	2.394	54781	15	12.930	4.900	54853	10	20.100	6.244
54546	18	21.276	25.830	54638	8	23.771	0.517	54710	8	17.324	2.024	54782*	92	13.060	4.290	54854	13	20.550	6.848
54547	9	21.626	25.468	54639	8	25.227	0.800	54711	17	17.636	2.374	54783	9	13.198	4.704	54855	8	20.592	6.134
54548	8	21.935	25.422	54640	22	0.546	1.328	54712	30	17.820	2.628	54784	9	13.526	4.206	54856	8	22.928	6.286
54549	22	23.120	25.465	54641	32	0.717	1.858	54713	8	18.354	2.289	54785	10	14.041	4.752	54857	13	0.318	7.070
54550	15	23.324	25.600	54642	8	1.212	1.131	54714	8	18.879	2.295	54786	11	14.149	4.688	54858	8	1.569	7.623
54551	13	23.518	25.368	54643	17	2.220	1.540	54715	8	20.418	2.738	54787	8	15.540	4.421	54859	14	2.064	7.137
54552	8	24.716	25.172	54644	9	3.016	1.589	54716	14	21.028	2.644	54788	26	15.839	4.730	54860*	62	2.396	7.916
54553	24	24.942	25.056	54645	8	3.036	1.765	54717	21	21.313	2.504	54789	9	18.258	4.814	54861	11	2.450	7.856
54554	9	25.266	25.737	54646	8	4.920	1.020	54718	9	21.811	2.055	54790	8	19.688	4.150	54862	15	2.536	7.764
				54647	12	5.356	1.420	54719	8	22.014	2.256	54791	22	20.405	4.300	54863	16	2.754	7.160
				54648*	80	5.425	1.432	54720	9	22.709	2.435	54792	22	21.070	4.142	54864	12	3.232	7.121
				54649	36	5.489	1.136	54721*	43	22.778	2.472	54793	28	21.720	4.692	54865	10	4.470	7.057
				54650	8	5.672	1.518	54722	12	23.560	2.327	54794	10	22.000	4.239	54866	12	5.382	7.798
				54651	10	7.057	1.804	54723	8	23.860	2.596	54795	12	22.203	4.684	54867	11	5.593	7.391
				54652	8	7.106	1.976	54724	8	1.371	3.053	54796	9	24.064	4.642	54868	10	5.847	7.944
				54653	8	8.604	1.808	54725	34	1.680	3.328	54797	11	24.935	4.594	54869	41	6.183	7.683
				54654	10	8.736	1.844	54726	13	2.050	3.791	54798	8	25.940	4.459	54870	12	6.441	7.570
				54655	10	8.793	1.846	54727	8	2.181	3.593	54799	16	2.336	5.724	54871	35	6.657	7.080
				54656	15	9.804	1.520	54728	10	2.922	3.368	54800	8	2.734	5.328	54872	17	6.991	7.080
				54657	35	10.196	1.260	54729	9	3.280	3.075	54801	13	2.846	5.874	54873	10	7.337	7.856
				54658	13	10.435	1.418	54730	9	3.300	3.086	54802	17	2.882	5.398	54874	9	8.924	7.531
				54659	21	10.728	1.018	54731	9	4.637	3.778	54803	8	3.343	5.720	54875	8	9.150	7.364
				54660	23	11.792	1.950	54732	14	4.699	3.108	54804	13	4.838	5.291	54876	19	9.637	7.470
				54661*	54	13.366	1.090	54733	41	5.114	3.888	54805	19	5.550	5.654	54877	31	10.932	7.990
				54662	12	13.790	1.400	54734	8	5.674	3.285	54806	15	5.830	5.120	54878	42	11.154	7.580
				54663	28	14.782	1.553	54735	8	6.946	3.541	54807	9	5.907	5.446	54879	9	11.379	7.880
				54664	8	15.472	1.759	54736	22	6.996	3.102	54808	8	6.574	5.436	54880	8	11.888	7.600
				54665	8	15.732	1.353	54737	39	10.302	3.916	54809	8	7.042	5.280	54881*	48	12.208	7.052
				54666	8	16.928	1.744	54738	16	10.472	3.516	54810	9	7.384	5.310	54882	10	12.989	7.693
				54667	33	17.570	1.620	54739	10	10.900	3.880	54811	13	7.798	5.493	54883	9	13.399	7.692
				54668	8	18.180	1.720	54740*	35	12.550	3.438	54812	12	8.321	5.416	54884	22	13.540	7.298
				54669	21	19.940	1.956	54741*	37	12.796	3.464	54813	12	8.336	5.354	54885	8	14.192	7.860
				54670	24	20.582	1.528	54742	38	13.214	3.413	54814	8	9.140	5.900	54886	19	14.613	7.118
				54671	11	20.762	1.052	54743	8	13.754	3.180	54815	10	10.193	5.528	54887	17	15.300	7.856
				54672	8	21.612	1.760	54744	9	13.913	3.091	54816	12	10.769	5.523	54888	18	16.100	7.688
				54673	10	22.063	1.330	54745	8	16.290	3.541	54817	9	11.392	5.487	54889	20	16.101	7.258
				54674	8	22.495	1.390	54746	9	16.693	3.334	54818	8	11.616	5.537	54890	9	16.838	7.960
				54675	10	23.000	1.784	54747	10	18.134	3.228	54819	11	12.014	5.144	54891	17	19.256	7.838
				54676	8	23.868	1.276	54748	8	18.140	3.925	54820	10	12.924	5.567	54892	11	20.290	7.866
				54677	9	24.667	1.936	54749	9	18.865	3.360	54821	8	12.968	5.215	54893	18	20.788	7.510
				54678	61	25.121	1.742	54750	8	20.241	3.142	54822	21	13.570	5.728	54894	8	22.022	7.200
				54679	18	25.268	1.665	54751	28	21.777	3.470	54823	8	14.630	5.310	54895	8	22.282	7.705
				54680	12	25.367	1.290	54752	12	22.864	3.207	54824	8	15.036	5.893	54896	11	22.285	7.714
				54681	8	0.373	2.685	54753	9	23.955	3.041	54825	27	16.104	5.130	54897	10	22.590	7.115
				54682	8	1.307	2.600	54754	8	24.303	3.346	54826	13	16.642	5.031	54898	11	23.284	7.490
				54683	34	2.080	2.206	54755	8	24.487	3.418	54827	8	18.260	5.874	54899	10	23.328	7.214
				54684	10	2.878	2.524	54756	14	25.350	3.814	54828	8	19.184	5.568	54900	12	1.504	8.105
				54685	8	3.110	2.522	54757	13	0.083	4.236	54829	8	21.292	5.045	54901	27	1.516	8.462
				54686	8	3.823	2.093	54758	8	1.259	4.400	54830	8	21.391	5.772	54902	8	3.060	8.680
				54687	36	4.096	2.346	54759	8	3.119	4.796	54831	18	22.770	5.998	54903	8	4.030	8.398
				54688	16	5.460	2.719	54760	9	3.524	4.316	54832	8	24.230	5.806	54904	24	5.849	8.171
				54689	9	6.104	2.636	54761	15	3.708	4.679	54833	9	25.932	5.018	54905	9	6.262	8.300
				54690	23	6.269	2.438	54762	11	3.989	4.948	54834	13	0.160	6.584	54906	31	6.946	8.442
				54691	8	6.382	2.748	54763	12	4.841	4.333	54835	14	1.527	6.747	54907	18	7.284	8.317
				54692	37	9.137	2.301	54764	8	4.860	4.165	54836	8	4.444	6.716	54908	11	7.495	8.584
				54693	9	10.114	2.145	54765	13	6.317	4.630	54837	10	4.866	6.070	54909	31	8.087	8.390
				54694	8	10.285	2.309	54766	10	7.039	4.843	54838	10	5.827	6.022	54910	22	8.416	8.392
				54695	10	11.234	2.508	54767	8	7.602	4.733	54839	10	6.890	6.294	54911	11	8.973	8.343
				54696	11	11.775	2.666	54768	13	8.317	4.204	54840	17	7.232	6.987	54912	9	9.065	8.546
				54697	8	11.860	2.486	54769	8	8.478	4.380	54841	8	7.420	6.635	54913	8	11.600	8.129
				54698	25	11.925	2.491	54770	13	8.698	4.240	54842	8	11.012					

54917	10	14.798	8.966	54989	8	9.136	10.760	55061	8	14.038	12.480	55133	18	19.682	14.657	55205	8	2.908	17.618
54918	8	17.634	8.351	54990	9	9.247	10.961	55062	9	14.209	12.974	55134	11	20.198	14.640	55206	10	3.558	17.700
54919	8	18.020	8.786	54991	23	9.657	10.960	55063	17	15.996	12.500	55135	8	20.937	14.200	55207	8	3.604	17.977
54920	9	18.520	8.242	54992	8	10.146	10.151	55064	9	17.639	12.078	55136	9	21.653	14.804	55208	8	3.718	17.762
54921	18	19.152	8.158	54993	20	11.079	10.964	55065	22	18.371	12.275	55137	8	21.921	14.023	55209	11	3.734	17.154
54922	8	19.216	8.443	54994	13	12.591	10.028	55066	32	18.637	12.355	55138	10	22.057	14.827	55210	12	5.955	17.670
54923	10	19.266	8.852	54995	8	13.770	10.513	55067	8	19.074	12.523	55139	10	22.084	14.916	55211	33	6.355	17.509
54924	13	19.924	8.286	54996	8	13.802	10.260	55068	8	19.808	12.224	55140	10	22.296	14.720	55212	11	6.363	17.770
54925	10	19.972	8.760	54997	8	15.390	10.016	55069	13	21.236	12.168	55141	8	23.976	14.691	55213	15	6.434	17.275
54926	10	20.596	8.417	54998	8	17.848	10.763	55070	16	22.978	12.820	55142	10	25.156	14.920	55214	21	6.650	17.794
54927	8	21.973	8.436	54999	8	18.572	10.832	55071	16	23.156	12.831	55143	10	25.295	14.071	55215	21	7.329	17.982
54928	8	22.298	8.820	55000*	53	19.236	10.608	55072	8	23.650	12.265	55144	8	0.125	15.381	55216	8	7.784	17.673
54929	13	22.406	8.550	55001	10	21.275	10.922	55073	10	24.620	12.862	55145	12	1.986	15.693	55217	10	8.120	17.966
54930	10	22.581	8.973	55002	10	21.422	10.648	55074	34	25.299	12.764	55146	11	2.366	15.090	55218	8	10.485	17.954
54931	13	23.852	8.092	55003	8	22.101	10.088	55075	11	25.406	12.794	55147	14	3.516	15.926	55219	8	10.815	17.018
54932	13	24.240	8.972	55004	13	22.860	10.394	55076	8	0.542	13.623	55148	10	4.070	15.555	55220	10	12.846	17.577
54933	8	24.875	8.172	55005	10	22.880	10.967	55077	20	0.617	13.246	55149	8	4.805	15.435	55221*	44	14.396	17.770
54934	15	0.894	9.608	55006	23	23.437	10.934	55078	8	0.689	13.038	55150	10	5.150	15.672	55222	8	16.524	17.304
54935	8	1.834	9.570	55007	11	23.698	10.508	55079	17	3.327	13.442	55151	8	5.886	15.192	55223	24	16.528	17.822
54936	10	2.738	9.237	55008	8	25.638	10.508	55080	8	4.271	13.232	55152	10	6.165	15.360	55224	20	17.985	17.267
54937	8	2.766	9.750	55009	32	0.430	11.880	55081	11	5.580	13.465	55153	10	7.260	15.784	55225	9	18.124	17.350
54938	26	2.776	9.800	55010	26	2.494	11.814	55082	13	5.980	13.990	55154	12	7.452	15.914	55226	17	19.170	17.100
54939*	30	2.887	9.746	55011	36	4.226	11.450	55083	8	6.982	13.558	55155	8	7.531	15.700	55227	10	19.940	17.845
54940	35	2.926	9.404	55012	10	4.298	11.784	55084	8	8.068	13.384	55156	8	8.150	15.670	55228	8	20.166	17.470
54941	9	3.612	9.454	55013	8	5.080	11.218	55085	9	10.630	13.840	55157	9	8.679	15.370	55229	9	20.860	17.763
54942	8	3.637	9.837	55014	35	5.323	11.308	55086	10	11.880	13.274	55158	10	10.260	15.066	55230	14	23.404	17.758
54943	10	5.690	9.166	55015	21	5.350	11.028	55087	10	13.034	13.692	55159	8	11.615	15.526	55231	22	23.821	17.320
54944	8	6.407	9.930	55016	11	6.040	11.909	55088	26	13.138	13.804	55160	9	14.150	15.363	55232	8	24.036	17.040
54945	8	6.651	9.270	55017	14	6.114	11.784	55089	32	15.082	13.323	55161	38	15.696	15.800	55233	11	1.524	18.835
54946	9	7.453	9.770	55018	10	6.520	11.552	55090	33	17.814	13.666	55162	11	16.028	15.565	55234	10	1.674	18.270
54947	43	8.282	9.617	55019	8	6.569	11.926	55091	9	20.427	13.526	55163	8	17.402	15.944	55235	8	3.160	18.689
54948	8	8.725	9.472	55020	10	7.665	11.000	55092	8	21.064	13.100	55164	9	18.395	15.847	55236	8	4.177	18.094
54949	8	8.850	9.936	55021	13	7.734	11.492	55093	10	21.185	13.914	55165	18	18.735	15.261	55237	11	4.334	18.326
54950	9	9.390	9.215	55022	8	8.368	11.596	55094	8	21.200	13.756	55166	40	22.180	15.660	55238	27	5.170	18.538
54951	9	10.746	9.457	55023	14	9.030	11.644	55095	9	21.607	13.693	55167	10	23.320	15.375	55239	9	8.190	18.541
54952	15	10.806	9.864	55024	9	10.646	11.636	55096	8	21.870	13.204	55168	9	25.280	15.004	55240	8	8.210	18.320
54953	8	10.976	9.629	55025	12	11.701	11.700	55097	10	22.882	13.306	55169	16	25.420	15.221	55241	29	10.254	18.024
54954	14	11.135	9.932	55026	12	12.168	11.140	55098	8	23.203	13.220	55170	10	0.092	16.510	55242	8	10.440	18.170
54955	33	11.331	9.468	55027	9	13.000	11.400	55099	40	23.490	13.546	55171	33	2.520	16.354	55243	10	12.124	18.400
54956	19	11.602	9.240	55028	11	16.290	11.971	55100*	51	23.490	13.165	55172	20	2.830	16.620	55244	8	14.150	18.326
54957	12	11.796	9.908	55029	8	17.174	11.210	55101	18	24.278	13.450	55173	10	2.917	16.865	55245	8	15.303	18.695
54958	9	11.968	9.510	55030	23	17.426	11.398	55102	8	24.977	13.517	55174*	60	3.692	16.896	55246	8	15.505	18.936
54959	10	12.638	9.915	55031	10	17.450	11.998	55103	12	25.622	13.684	55175	12	5.004	16.978	55247	8	16.308	18.457
54960	8	12.648	9.922	55032	8	17.930	11.209	55104	8	0.846	14.918	55176	9	5.576	16.560	55248	24	16.975	18.132
54961	10	13.116	9.574	55033	9	18.198	11.600	55105	8	2.186	14.930	55177	10	6.188	16.792	55249	10	17.050	18.170
54962	8	13.248	9.736	55034	10	19.120	11.746	55106	8	2.371	14.429	55178	33	6.478	16.920	55250	12	17.283	18.645
54963	10	15.794	9.615	55035	8	20.672	11.076	55107	27	2.410	14.554	55179	12	6.608	16.865	55251	8	17.758	18.478
54964	8	16.087	9.064	55036	11	20.921	11.370	55108	8	3.560	14.528	55180	10	6.988	16.406	55252	8	17.837	18.340
54965	10	16.489	9.460	55037	32	21.094	11.138	55109	24	3.740	14.370	55181	11	9.326	16.108	55253	15	18.020	18.577
54966	9	16.740	9.628	55038	24	21.200	11.199	55110	8	4.080	14.675	55182	12	9.870	16.992	55254	9	18.459	18.792
54967	8	17.250	9.598	55039	12	23.452	11.907	55111	8	4.499	14.434	55183	11	10.367	16.496	55255	8	18.800	18.830
54968	26	17.558	9.540	55040	8	24.186	11.678	55112	10	4.502	14.660	55184	23	10.502	16.197	55256	8	19.792	18.091
54969	9	17.727	9.240	55041	16	24.510	11.662	55113	9	5.190	14.988	55185	8	10.734	16.401	55257	17	20.095	18.186
54970	8	20.271	9.046	55042	10	24.611	11.669	55114	12	6.948	14.656	55186	29	11.140	16.581	55258	10	22.343	18.700
54971	10	20.400	9.540	55043	8	25.261	11.051	55115	9	7.710	14.755	55187	45	12.543	16.793	55259	8	22.596	18.472
54972	8	21.768	9.126	55044	14	25.693	11.458	55116	8	7.802	14.774	55188	10	12.610	16.472	55260	21	23.934	18.970
54973	8	21.914	9.986	55045	42	25.776	11.592	55117	8	7.929	14.345	55189	41	12.915	16.576	55261	9	0.875	19.059
54974	8	22.340	9.598	55046	10	1.810	12.145	55118	39	8.720	14.426	55190	10	14.911	16.392	55262	8	1.747	19.060
54975	9	22.698	9.600	55047	43	1.929	12.474	55119	8	8.840	14.642	55191	10	14.930	16.348	55263	8	2.053	19.978
54976	8	23.300	9.680	55048	10	2.810	12.782	55120	10	9.038	14.440	55192	11	14.962	16.181	55264	12	2.705	19.888
54977	8	24.051	9.246	55049	13	4.276	12.116	55121	9	9.578	14.094	55193	39	15.388	16.458	55265	8	3.074	19.295
54978	9	25.175	9.920	55050	9	4.512	12.706	55122	14	9.680	14.920	55194	9	15.437	16.470	55266	21	5.402	19.767
54979	15	0.094	10.256	55051	9	4.998	12.234	55123	15	9.854	14.640	55195	10	17.922	16.129				

55277	9	11:580	19:138	55349	8	13:081	21:512	55421	8	19:972	23:144	<div>R.A. 18^h 40^m</div> <div>Plate 748; 1916 Aug. 26.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-02557 +00645 +2752</div> <div>D E F</div> <div>-00622 -02563 -3867</div> <div>Mag.=16.8-1.05√d</div>	55556	12	2:522	3:744
55278	37	11:707	19:594	55350	8	14:410	21:130	55422	8	22:646	23:246		55557	9	4:355	3:654
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55280	8	12:079	19:416	55352	20	16:366	21:275	55424	38	0:227	24:598		55559	23	7:279	3:252
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56772	14	20-642	6-904	56844	10	14-836	11-726	56916	8	7-934	16-460	56988*	84	6-268	20-762	57060	8	7-213	24-975
56773*	60	21-200	6-412	56845*	64	19-380	11-411	56917	25	7-982	16-406	56989	17	10-775	20-268	57061	9	7-466	24-762
56774	10	21-650	6-429	56846*	62	21-131	11-910	56918	10	10-431	16-879	56990	12	11-460	20-825	57062	22	8-083	24-664
56775	17	22-537	6-913	56847	8	25-410	11-752	56919	22	12-728	16-520	56991	11	13-370	20-710	57063	10	9-926	24-220
56776	14	23-536	6-044	56848	21	1-210	12-533	56920	10	13-050	16-720	56992*	44	13-812	20-566	57064	8	10-276	24-730
56777	8	7-804	7-063	56849	11	1-506	12-015	56921	8	13-754	16-428	56993	9	13-872	20-860	57065	17	10-455	24-148
56778	9	12-952	7-376	56850	10	5-976	12-144	56922	25	16-230	16-504	56994	9	18-518	20-576	57066	13	11-354	24-640
56779	8	17-792	7-528	56851*	78	6-342	12-738	56923	8	23-258	16-570	56995	12	18-793	20-914	57067	8	12-370	24-437
56780	10	17-968	7-898	56852	9	6-390	12-078	56924*	36	24-588	16-204	56996	9	22-913	20-086	57068	13	13-938	24-372
56781	8	18-326	7-808	56853	14	8-650	12-166	56925	10	0-917	17-739	56997	9	23-078	20-500	57069	10	15-500	24-774
56782	11	18-630	7-575	56854	9	13-732	12-990	56926	28	3-032	17-556	56998	10	23-272	20-282	57070	16	15-897	24-790
56783	12	24-480	7-673	56855	23	17-494	12-218	56927	8	3-121	17-193	56999	10	25-160	20-292	57071	27	16-370	24-897
56784	8	25-252	7-758	56856	16	20-337	12-100	56928	8	4-635	17-761	57000	13	25-847	20-830	57072	21	18-350	24-022
56785	8	2-556	8-215	56857	10	20-586	12-489	56929	28	6-170	17-754	57001	13	2-321	21-787	57073	8	19-700	24-319
56786	9	3-354	8-026	56858	8	23-457	12-762	56930	13	7-682	17-725	57002	14	2-385	21-279	57074	20	23-521	24-448
56787*	39	3-880	8-048	56859	16	23-838	12-456	56931	8	7-773	17-330	57003	38	3-304	21-600	57075	22	23-800	24-280
56788	22	4-662	8-652	56860	26	24-140	12-652	56932	8	8-450	17-880	57004	8	3-801	21-825	57076	19	25-539	24-332
56789	21	5-648	8-867	56861	9	2-416	13-511	56933	16	8-845	17-745	57005	8	6-648	21-630	57077	11	3-014	25-066
56790	8	8-812	8-354	56862*	38	3-092	13-330	56934	8	12-121	17-100	57006	15	7-541	21-700	57078	8	4-784	25-574
56791*	73	9-025	8-114	56863	10	3-948	13-732	56935	9	13-120	17-652	57007	19	8-328	21-488	57079	8	9-570	25-200
56792	8	11-748	8-096	56864*	45	4-570	13-432	56936	8	13-812	17-472	57008	11	9-210	21-471	57080	8	10-054	25-639
56793	9	13-111	8-936	56865	8	5-520	13-144	56937	21	15-728	17-306	57009	8	13-783	21-071	57081	9	11-320	25-076
56794	12	13-225	8-200	56866*	45	8-356	13-366	56938	25	17-185	17-840	57010	10	15-930					

R.A. 19^h 4^m

57444	14	9.790	16.510	57516	17	15.374	19.680	57588	10	1.822	23.384	<div>R.A. 19^h 12^m</div> <div>Plate 1063; 1917 May 21.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—0.2565 +0.1063 —0.880</div> <div>D E F</div> <div>—0.1076 —0.2595 —0.765</div> <div>Mag. = 15.7 — 1.05√d</div>	57706	31	17.627	2.628
57445	10	10.197	16.440	57517	8	16.656	19.132	57589	9	2.276	23.236		57707*	34	17.970	2.961
57446	10	10.374	16.025	57518	11	18.033	19.680	57590	13	3.066	23.684		57708	15	17.974	2.284
57447	24	13.793	16.356	57519	22	20.629	19.322	57591	13	8.212	23.314		57709	8	19.090	2.287
57448	12	14.676	16.260	57520	19	22.736	19.954	57592	15	8.582	23.406		57710	10	19.354	2.292
57449	9	16.340	16.258	57521	18	22.782	19.066	57593	20	8.774	23.312		57711	8	20.458	2.092
57450	11	16.362	16.617	57522	12	24.444	19.424	57594	12	9.070	23.334		57712	24	20.859	2.116
57451	10	17.685	16.542	57523	10	0.702	20.044	57595	20	9.968	23.634		57713	12	21.240	2.583
57452*	32	17.756	16.736	57524	10	1.060	20.235	57596	11	10.816	23.562		57714	9	21.249	2.563
57453	8	18.024	16.736	57525	8	1.278	20.976	57597	10	12.548	23.817		57715	28	0.008	3.905
57454	13	18.326	16.364	57526	10	2.194	20.502	57598	21	13.055	23.446	57716	15	2.859	3.168	
57455	13	20.722	16.053	57527	13	3.645	20.754	57599	11	15.821	23.964	57717	10	3.780	3.907	
57456	13	20.924	16.930	57528	12	4.581	20.365	57600	11	17.520	23.190	57718*	40	4.162	3.075	
57457	10	21.954	16.165	57529	8	6.620	20.502	57601	13	18.756	23.920	57719*	40	4.712	3.913	
57458	12	22.314	16.271	57530	14	13.170	20.240	57602	11	20.116	23.968	57720	17	5.458	3.879	
57459	13	22.605	16.052	57531	10	16.732	20.982	57603	11	20.335	23.995	57721	24	9.310	3.853	
57460	15	22.740	16.810	57532	9	17.666	20.956	57604	8	23.146	23.130	57722	16	10.134	3.330	
57461	9	23.104	16.178	57533	10	18.546	20.624	57605	10	24.486	23.808	57723	22	10.218	3.282	
57462	9	23.940	16.626	57534	10	19.984	20.695	57606	10	25.894	23.838	57724*	40	10.620	3.480	
57463	25	25.894	16.087	57535	23	22.640	20.972	57607	19	1.358	24.397	57725	16	11.637	3.910	
57464	24	0.111	17.685	57536	9	23.933	20.824	57608	20	1.634	24.228	57726	10	11.764	3.511	
57465	10	1.127	17.840	57537	35	24.490	20.708	57609	10	3.165	24.955	57727	10	12.394	3.758	
57466	9	1.908	17.055	57538	18	25.300	20.410	57610	14	3.375	24.260	57728	8	12.536	3.589	
57467	9	2.865	17.825	57539	12	25.324	20.086	57611	24	5.186	24.940	57729	12	13.618	3.443	
57468	10	4.822	17.502	57540	12	25.380	20.044	57612	20	5.671	24.350	57730*	43	14.315	3.768	
57469	18	5.906	17.178	57541	8	25.701	20.417	57613	8	8.038	24.450	57731	16	14.515	3.007	
57470	9	6.210	17.716	57542	16	0.991	21.884	57614	31	8.445	24.906	57732	16	16.592	3.530	
57471	10	7.817	17.001	57543	20	2.942	21.334	57615	19	9.140	24.996	57733	8	18.496	3.683	
57472	25	10.849	17.922	57544	10	4.486	21.064	57616	11	16.334	24.562	57734*	42	20.332	3.381	
57473	11	10.942	17.502	57545	12	5.186	21.095	57617	10	16.588	24.406	57735	23	22.042	3.860	
57474	8	12.810	17.126	57546	9	9.190	21.710	57618	17	19.750	24.346	57736	8	23.458	3.675	
57475	11	14.396	17.605	57547	10	10.076	21.475	57619*	43	22.738	24.306	57737	8	23.680	3.415	
57476	11	15.066	17.034	57548	18	13.510	21.044	57620*	22	24.133	24.398	57738	8	0.526	4.370	
57477*	26	16.895	17.466	57549	8	14.254	21.473	57621	18	0.209	25.100	57739	13	2.356	4.042	
57478	12	18.234	17.078	57550	10	15.610	21.361	57622	13	1.378	25.492	57740	15	2.430	4.654	
57479	33	18.661	17.112	57551	10	16.404	21.055	57623	10	3.228	25.714	57741	9	4.303	4.976	
57480	15	20.065	17.376	57552	20	17.145	21.506	57624	13	5.534	25.370	57742	16	4.506	4.592	
57481	10	20.800	17.660	57553	8	17.225	21.792	57625	10	7.835	25.172	57743	10	5.219	4.832	
57482	10	21.132	17.554	57554	12	17.850	21.968	57626	46	9.802	25.368	57744	8	5.490	4.250	
57483	12	21.242	17.538	57555	9	18.060	21.480	57627	12	10.521	25.968	57745	12	7.416	4.408	
57484	9	21.462	17.836	57556	24	18.140	21.960	57628	14	11.910	25.936	57746	10	7.628	4.429	
57485	10	22.525	17.394	57557	15	19.308	21.452	57629	40	12.191	25.600	57747	14	8.794	4.828	
57486	8	24.938	17.766	57558	12	22.177	21.354	57630	10	12.585	25.832	57748	15	10.202	4.372	
57487	11	25.134	17.895	57559	10	23.050	21.972	57631	8	14.132	25.584	57749	35	10.712	4.322	
57488	13	2.145	18.324	57560	8	23.286	21.114	57632	17	14.158	25.286	57750	8	12.408	4.730	
57489	8	2.275	18.583	57561	16	23.850	21.072	57633	21	14.665	25.802	57751	12	13.836	4.116	
57490	20	2.491	18.452	57562	18	2.154	22.084	57634	20	16.188	25.073	57752	12	14.302	4.168	
57491	10	2.890	18.507	57563	12	4.614	22.900	57635	12	18.935	25.774	57753	14	14.500	4.868	
57492	10	3.366	18.477	57564*	92	5.388	22.842	57636	9	23.960	25.197	57754	8	14.615	4.461	
57493	11	7.086	18.784	57565*	36	6.750	22.707	57637	28	24.264	25.262	57755	9	16.946	4.314	
57494	11	8.542	18.412	57566	12	6.902	22.451	57638	9	25.057	25.409	57756	9	17.215	4.838	
57495	9	9.385	18.035	57567	18	7.018	22.166					57757	11	17.340	4.538	
57496	18	11.624	18.219	57568	12	8.398	22.551					57758	21	18.249	4.188	
57497	10	14.998	18.676	57569	14	8.695	22.251					57759	18	20.231	4.902	
57498	11	15.529	18.016	57570	10	9.140	22.019					57760*	36	20.570	4.354	
57499	15	16.304	18.342	57571*	64	10.414	22.206					57761	8	22.030	4.282	
57500	11	17.094	18.398	57572*	24	12.158	22.706					57762	8	24.652	4.844	
57501	8	18.862	18.205	57573*	25	12.634	22.215					57763	8	1.705	5.425	
57502	8	22.091	18.524	57574	11	13.902	22.110					57764	8	3.500	5.538	
57503	10	23.120	18.557	57575	11	15.770	22.300					57765	8	4.341	5.780	
57504	18	23.484	18.296	57576	10	15.997	22.284					57766	12	5.179	5.771	
57505	16	24.40														

57778	9	13.013	5.331	57850	8	21.381	8.622	57922	8	1.853	13.363	57994	9	1.628	16.898	58066*	30	14.216	19.961
57779	12	13.890	5.010	57851	16	23.700	8.690	57923	8	1.958	13.078	57995	9	3.486	16.968	58067	8	14.344	19.566
57780	10	14.270	5.472	57852	10	25.664	8.605	57924	12	2.340	13.184	57996	31	3.568	16.328	58068	8	16.506	19.068
57781*	38	15.002	5.374	57853	12	0.098	9.664	57925*	43	3.158	13.424	57997	9	4.722	16.660	58069	12	20.230	19.510
57782	10	16.650	5.630	57854	13	0.813	9.430	57926	11	3.410	13.852	57998	11	5.208	16.686	58070	11	20.725	19.090
57783	20	17.571	5.106	57855	8	1.406	9.907	57927	9	4.056	13.075	57999	10	6.660	16.206	58071	40	25.104	19.250
57784	10	17.982	5.456	57856	29	1.726	9.259	57928	10	4.186	13.761	58000	8	8.273	16.565	58072	10	25.110	19.129
57785	9	19.046	5.512	57857	10	2.782	9.684	57929	10	4.337	13.669	58001	11	10.334	16.063	58073	13	25.182	19.819
57786	12	19.652	5.701	57858	10	5.101	9.582	57930	13	4.538	13.428	58002	15	11.296	16.076	58074	19	0.476	20.245
57787	14	20.389	5.210	57859	26	8.717	9.732	57931	17	8.416	13.654	58003*	34	13.662	16.986	58075	8	1.830	20.622
57788*	28	22.968	5.481	57860	30	9.736	9.284	57932	10	8.429	13.512	58004	12	16.801	16.972	58076	37	2.242	20.970
57789*	56	23.599	5.732	57861	17	12.724	9.900	57933	10	11.546	13.546	58005	9	17.322	16.181	58077	19	3.046	20.658
57790	10	25.736	5.576	57862	26	13.385	9.975	57934*	54	12.199	13.625	58006	10	18.502	16.367	58078	12	3.068	20.334
57791	9	25.864	5.301	57863	9	13.574	9.666	57935	32	12.908	13.138	58007	30	19.390	16.629	58079	15	3.124	20.290
57792	12	2.166	6.152	57864	12	15.198	9.300	57936*	40	15.994	13.710	58008	13	19.994	16.890	58080	8	3.516	20.720
57793	8	3.148	6.669	57865	10	18.688	9.244	57937	10	18.898	13.176	58009	18	21.018	16.970	58081	8	4.428	20.230
57794	8	4.394	6.121	57866	11	19.204	9.350	57938	9	20.308	13.298	58010	11	21.802	16.084	58082*	35	4.474	20.538
57795*	65	4.446	6.930	57867	11	21.708	9.948	57939	34	21.098	13.290	58011	12	22.598	16.010	58083	11	11.940	20.496
57796	8	4.536	6.912	57868	10	23.831	9.988	57940	11	22.306	13.280	58012	10	23.749	16.722	58084	11	15.068	20.503
57797	8	5.558	6.120	57869	9	25.374	9.098	57941	19	23.216	13.579	58013	8	24.371	16.648	58085	15	18.112	20.028
57798	12	5.581	6.822	57870	10	25.642	9.275	57942	9	23.889	13.880	58014	10	25.168	16.642	58086	8	18.864	20.386
57799	34	8.561	6.854	57871	25	1.939	10.748	57943	9	24.586	13.211	58015	13	0.429	17.099	58087	8	19.945	20.142
57800	18	9.766	6.192	57872	10	3.228	10.877	57944	8	25.160	13.717	58016	9	4.576	17.094	58088	10	20.176	20.784
57801	13	10.230	6.128	57873	13	5.012	10.605	57945	11	0.124	14.249	58017	12	8.766	17.630	58089	24	20.448	20.468
57802	15	11.878	6.612	57874	12	6.244	10.078	57946	28	0.412	14.298	58018	12	9.051	17.042	58090	29	20.950	20.260
57803	18	12.632	6.372	57875	11	6.686	10.177	57947	38	0.555	14.488	58019	10	9.200	17.572	58091*	41	21.994	20.624
57804	12	13.077	6.008	57876	20	8.570	10.107	57948	8	4.359	14.040	58020	21	10.142	17.400	58092	28	22.988	20.458
57805	18	13.627	6.375	57877*	39	9.580	10.537	57949	8	4.434	14.260	58021	12	12.654	17.653	58093	8	25.762	20.251
57806	8	14.451	6.332	57878	20	13.236	10.986	57950	16	4.712	14.262	58022	33	12.718	17.450	58094	31	0.395	21.262
57807	11	17.422	6.513	57879	9	14.598	10.112	57951	11	5.162	14.310	58023	15	13.895	17.961	58095	10	1.048	21.396
57808	8	20.307	6.246	57880	14	16.251	10.544	57952	19	5.602	14.568	58024	11	14.170	17.566	58096	8	1.182	21.326
57809	19	21.284	6.085	57881	10	18.457	10.360	57953	10	7.993	14.257	58025	10	16.370	17.288	58097	16	1.608	21.344
57810	10	23.038	6.218	57882	13	20.164	10.544	57954	9	8.382	14.828	58026	17	16.814	17.566	58098	9	1.689	21.096
57811	9	24.596	6.080	57883	10	21.587	10.182	57955	32	8.557	14.201	58027	10	18.544	17.551	58099	9	4.172	21.940
57812	36	25.358	6.610	57884	10	22.560	10.039	57956	10	12.108	14.761	58028	11	19.497	17.611	58100	10	4.290	21.365
57813	12	2.082	7.938	57885	10	23.821	10.392	57957	17	12.215	14.456	58029	10	21.242	17.342	58101	14	5.448	21.302
57814	23	2.713	7.150	57886	15	25.922	10.998	57958*	36	12.590	14.804	58030	10	21.720	17.228	58102	9	5.732	21.030
57815	22	6.940	7.876	57887	10	0.314	11.321	57959	25	16.258	14.492	58031	12	23.644	17.414	58103	9	10.800	21.020
57816*	29	7.851	7.040	57888	9	0.503	11.439	57960	11	17.040	14.637	58032	8	24.542	17.610	58104	28	11.465	21.862
57817	22	12.019	7.358	57889	12	2.950	11.962	57961	10	20.554	14.550	58033	32	25.086	17.890	58105*	40	11.721	21.350
57818	29	12.424	7.228	57890	8	3.099	11.245	57962	9	20.590	14.176	58034	10	25.800	17.940	58106	15	13.062	21.700
57819	8	12.480	7.460	57891	22	3.451	11.890	57963	9	20.824	14.066	58035	8	0.838	18.843	58107	19	13.568	21.323
57820	25	13.908	7.432	57892	8	4.082	11.617	57964	34	21.139	14.718	58036	19	1.198	18.573	58108	10	14.470	21.470
57821	23	13.972	7.448	57893*	33	4.480	11.346	57965	11	24.340	14.970	58037	9	1.548	18.393	58109	9	16.780	21.800
57822	8	14.190	7.630	57894	14	6.214	11.928	57966	9	24.344	14.272	58038	20	2.109	18.499	58110	9	18.425	21.111
57823	14	15.426	7.560	57895	8	6.303	11.837	57967	18	24.460	14.130	58039	15	2.582	18.704	58111	22	19.618	21.434
57824	12	17.270	7.210	57896	10	7.516	11.842	57968	15	24.650	14.188	58040	11	2.844	18.147	58112	10	21.960	21.765
57825	12	17.394	7.156	57897	14	8.115	11.856	57969	11	25.394	14.090	58041	8	4.368	18.877	58113	13	24.198	21.282
57826	8	17.470	7.792	57898	8	14.432	11.152	57970	10	0.284	15.876	58042	10	6.415	18.252	58114	10	24.304	21.328
57827	10	17.948	7.242	57899	29	15.759	11.621	57971	10	0.434	15.160	58043	25	6.546	18.517	58115	18	24.893	21.040
57828	18	20.890	7.912	57900	10	18.296	11.568	57972	12	0.460	15.376	58044	15	7.260	18.199	58116	9	0.822	22.256
57829	21	21.383	7.993	57901	10	20.556	11.804	57973	15	0.460	15.147	58045	8	10.079	18.885	58117	14	1.458	22.533
57830	13	0.285	8.744	57902	31	24.057	11.759	57974	14	0.948	15.032	58046	9	14.624	18.260	58118	12	1.930	22.990
57831	9	2.239	8.830	57903	12	24.198	11.040	57975	14	1.050	15.703	58047	9	18.490	18.179	58119	19	2.336	22.397
57832	20	3.748	8.439	57904	12	24.548	11.566	57976	32	2.512	15.252	58048	10	18.773	18.725	58120	8	3.096	22.102
57833	14	4.678	8.724	57905	10	25.890	11.504	57977*	48	3.664	15.276	58049	9	18.854	18.820	58121	9	5.393	22.177
57834	10	4.730	8.421	57906	10	3.638	12.412	57978	12	4.112	15.565	58050	11	22.510	18.418	58122	12	5.680	22.962
57835	8	4.960	8.682	57907	15	4.322	12.466	57979	10	8.387	15.242	58051	14	22.590	18.618	58123	19	7.128	22.539
57836	10	5.864	8.090	57908	15	9.928	12.056	57980	20	9.282	15.551	58052	8	22.750	18.422	58124*	44	8.178	22.201
57837	10	5.924	8.479	57909	29	10.892	12.932	57981	12	10.814	15.942	58053*	69	23.924	18.158	58125	16	10.240	22.362
57838	22	6.720	8.456	57910*	35	11.936	12.470	57982	10	11.225	15.680	58054	9	24.916	18.144	58126	12	12.170	22.504
57839	10	9.387	8.822	57911	8	12.515	12.876	57983	8	11.919	15.907	58055	22	0.507	19.356	58127	10	13.340	22.246
57840	29	9.566	8.316	57912	11	16.148	12.032	57984	12	16.288	15.978	58056							

58138*	48	22.268	22.194	<div>R.A. 19^h 20^m</div> <div>Plate 1074 ; 1917 Sept. 9.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—02566 +.00605 —.2444</div> <div>D E F</div> <div>—00587 —.02566 —.0221</div> <div>Mag.=16.4—1.05√<i>d</i></div>	58256	9	3.634	7.057	58328*	38	6.016	14.879	58400	16	20.516	20.545
58139	22	22.962	22.252		58257	31	4.706	7.022	58329	12	6.706	14.080	58401	15	23.268	20.581
58140	22	23.772	22.016		58258	20	7.310	7.578	58330	40	9.012	14.127	58402	15	24.702	20.070
58141	9	0.940	23.412		58259	10	11.034	7.744	58331	12	9.248	14.685	58403	11	1.794	21.574
58142	10	4.470	23.583		58260	9	14.402	7.952	58332	14	10.025	14.500	58404	28	2.489	21.330
58143	10	7.046	23.508		58261	20	17.086	7.800	58333	13	10.641	14.070	58405*	40	3.852	21.460
58144	28	8.838	23.037		58262	26	17.609	7.254	58334	13	11.964	14.814	58406	8	7.916	21.061
58145	8	10.884	23.966		58263	14	21.128	7.130	58335	21	12.480	14.056	58407*	43	8.500	21.672
58146*	39	11.531	23.500		58264	14	1.221	8.985	58336	13	18.216	14.568	58408*	68	10.598	21.465
58147	8	12.186	23.723		58265	10	3.181	8.893	58337*	37	22.117	14.897	58409	25	11.084	21.616
58148*	40	15.290	23.163	58266	10	5.122	8.517	58338	38	1.044	15.318	58410	14	11.626	21.699	
58149	12	17.180	23.562	58267	23	6.857	8.403	58339	39	1.340	15.384	58411	25	12.036	21.599	
58150	10	17.254	23.782	58268	22	8.584	8.482	58340	20	6.032	15.529	58412	14	22.777	21.269	
58151	10	17.272	23.466	58269	12	11.526	8.808	58341	11	6.664	15.274	58413	11	25.095	21.336	
58152	9	17.830	23.143	58270	9	12.648	8.727	58342	11	9.500	15.558	58414	40	25.097	21.638	
58153	30	19.547	23.710	58271	28	15.451	8.168	58343*	37	10.108	15.239	58415	26	0.558	22.553	
58154	9	20.262	23.532	58272	9	21.722	8.962	58344*	34	15.860	15.444	58416	27	1.373	22.312	
58155	9	21.056	23.222	58273	9	22.220	8.250	58345	16	19.812	15.402	58417	9	4.346	22.921	
58156	14	22.942	23.119	58274	20	4.260	9.778	58346*	28	21.642	15.721	58418	11	8.486	22.547	
58157	9	23.373	23.824	58275*	60	4.704	9.269	58347	12	22.337	15.618	58419*	47	9.826	22.094	
58158	8	24.044	23.411	58276	24	5.522	9.850	58348*	41	23.444	15.318	58420	13	10.160	22.214	
58159	10	25.550	23.820	58277	11	7.840	9.102	58349*	42	23.495	15.894	58421	16	10.656	22.397	
58160	47	0.546	24.598	58278*	42	10.248	9.077	58350	10	24.329	15.132	58422	22	14.484	22.464	
58161*	29	1.946	24.667	58279	13	11.714	9.294	58351	11	0.156	16.314	58423	17	16.697	22.719	
58162	8	2.292	24.071	58280	11	14.212	9.148	58352	17	4.336	16.867	58424	15	0.554	23.418	
58163	9	3.699	24.076	58281	11	14.433	9.081	58353	25	15.590	16.188	58425	29	3.616	23.776	
58164	8	5.328	24.384	58282*	35	21.643	9.916	58354	33	16.097	16.452	58426	15	15.150	23.030	
58165	10	6.128	24.402	58283	11	22.120	9.645	58355	12	17.159	16.278	58427	11	15.944	23.916	
58166	9	6.716	24.366	58284	16	22.468	9.082	58356	28	18.164	16.797	58428*	48	17.986	23.896	
58167	10	8.676	24.346	58285	14	24.346	9.976	58357	20	18.845	16.451	58429	23	22.946	23.362	
58168	8	8.888	24.816	58286*	38	24.396	9.826	58358	35	25.478	16.874	58430	14	25.652	23.892	
58169	12	9.128	24.039	58287	25	6.103	10.606	58359	18	4.419	17.062	58431	43	1.648	24.466	
58170	72	13.770	24.655	58288*	44	6.576	10.162	58360	12	5.546	17.264	58432	8	3.166	24.112	
58171	19	13.816	24.770	58289	17	9.438	10.384	58361	9	10.500	17.100	58433	21	4.966	24.266	
58172	9	14.438	24.180	58290	29	9.799	10.466	58362	15	13.025	17.270	58434	10	15.768	24.564	
58173	14	14.502	24.348	58291*	46	11.279	10.704	58363	14	21.664	17.935	58435	20	16.473	24.768	
58174	10	15.198	24.240	58292	18	13.487	10.170	58364	10	21.868	17.200	58436	10	16.825	24.946	
58175	10	15.570	24.615	58293	12	14.228	10.925	58365	34	23.486	17.782	58437	14	20.929	24.379	
58176	8	16.645	24.839	58294	30	16.751	10.600	58366*	60	24.566	17.810	58438*	52	22.537	24.958	
58177	9	18.297	24.475	58295	15	3.458	11.284	58367	40	25.731	17.615	58439	28	22.732	24.426	
58178	16	19.284	24.920	58296	8	4.114	11.394	58368	15	25.834	17.546	58440	20	7.601	25.634	
58179*	34	20.003	24.658	58297	13	4.353	11.590	58369	10	0.168	18.924	58441	58	8.853	25.729	
58180	8	20.100	24.746	58298	23	6.624	11.236	58370*	82	1.497	18.454	58442	38	9.750	25.342	
58181	17	20.478	24.966	58299*	31	10.403	11.236	58371	31	2.660	18.176	58443	23	10.497	25.546	
58182	11	21.402	24.962	58300	10	14.060	11.372	58372	15	5.910	18.778	58444	24	11.808	25.817	
58183	40	24.036	24.172	58301	24	17.054	11.148	58373	9	7.713	18.237	58445	10	14.646	25.822	
58184	10	1.792	25.466	58302	11	18.628	11.478	58374	15	9.990	18.044					
58185	38	2.092	25.528	58303	11	19.730	11.949	58375*	26	12.364	18.512					
58186	9	2.888	25.660	58304*	40	19.928	11.698	58376*	40	12.466	18.577					
58187	40	4.263	25.996	58305	22	20.452	11.156	58377	26	15.416	18.704					
58188	10	4.340	25.194	58306	36	22.428	11.472	58378	9	16.604	18.220					
58189	20	7.775	25.620	58307	36	1.595	12.053	58379	18	18.336	18.382					
58190	8	7.878	25.600	58308*	45	8.124	12.368	58380	11	25.296	18.609					
58191	15	8.622	25.268	58309	10	17.402	12.753	58381*	45	2.685	19.538					
58192	8	11.710	25.108	58310	14	19.182	12.312	58382	15	5.480	19.336					
58193	100	12.256	25.700	58311	23	20.058	12.524	58383	10	5.830	19.842					
58194	11	12.482	25.368	58312	22	0.763	13.877	58384	22	7.599	19.644					
58195	13	12.816	25.417	58313*	150	1.032	13.089	58385	22	7.848	19.153					
58196	8	14.026	25.307	58314	9	2.134	13.499	58386	28	8.130	19.640					
58197	10	18.794	25.521	58315*	48	6.046	13.174	58387	11	8.584	19.822					
58198	8	21.791	25.662	58316	18	7.832	13.590	58388*	40	10.412	19.638					
				58317	12	8.426	13.121	58389	25	12.514	19.110					
				58318	9	9.958										

58456	17	8.592	0.772	58528	19	0.269	9.038	58600	9	8.816	17.332	58672*	74	19.918	24.888	58735	16	7.477	5.750
58457	11	8.974	0.293	58529	12	2.162	9.910	58601	15	19.154	17.620	58673*	52	20.993	24.089	58736	12	10.112	5.644
58458	24	10.222	0.528	58530*	34	2.207	9.756	58602*	71	21.686	17.623	58674	8	24.356	24.628	58737	10	10.902	5.516
58459	21	12.204	0.736	58531	10	17.366	9.727	58603	9	22.764	17.518	58675	10	3.444	25.640	58738	10	11.282	5.428
58460	19	16.103	0.548	58532	23	20.572	9.812	58604	16	3.220	18.530	58676	25	4.418	25.672	58739	12	13.420	5.892
58461	12	20.094	0.530	58533	12	22.616	9.776	58605*	49	3.986	18.676	58677	13	7.316	25.358	58740	10	16.685	5.538
58462	24	3.744	1.071	58534	32	24.032	9.648	58606	18	10.293	18.408	58678	9	8.405	25.348	58741	9	21.969	5.210
58463	16	9.660	1.732	58535	20	24.457	9.660	58607	12	13.009	18.490	58679	13	13.927	25.371	58742	10	1.619	6.015
58464	16	11.801	1.086	58536	18	24.668	9.857	58608	17	13.877	18.274	58680	20	16.786	25.351	58743	16	1.626	6.148
58465*	27	12.026	1.089	58537	15	4.763	10.008	58609	10	14.379	18.282	58681	10	17.273	25.351	58744	10	1.632	6.302
58466	22	19.115	1.080	58538	16	7.624	10.684	58610	10	23.864	18.153	58682	34	19.278	25.48c	58745	11	4.340	6.866
58467	12	16.457	1.881	58539	8	7.774	10.041	58611	28	0.556	19.874	58683	17	19.538	25.740	58746	11	5.598	6.331
58468	18	20.086	1.684	58540	10	10.020	10.112	58612	21	2.649	19.992	58684	16	22.617	25.619	58747	12	13.515	6.983
58469	11	25.152	1.228	58541	12	13.221	10.688	58613	33	5.018	19.903	58685	27	24.710	25.472	58748	14	13.864	6.040
58470	28	5.488	2.555	58542	10	17.300	10.279	58614	27	5.194	19.036					58749	15	14.153	6.245
58471	16	6.773	2.601	58543	17	20.515	10.898	58615	11	5.844	19.052					58750	12	15.835	6.162
58472	20	8.424	2.632	58544	14	20.929	10.598	58616	25	6.200	19.600					58751	10	16.022	6.468
58473	18	8.502	2.896	58545	13	22.325	10.948	58617	25	6.876	19.974					58752	11	24.599	6.325
58474	13	11.020	2.602	58546	11	22.390	10.112	58618	15	9.740	19.330					58753	10	0.907	7.316
58475*	28	13.587	2.638	58547	15	24.382	10.208	58619	29	12.056	19.996					58754	13	2.455	7.828
58476	9	18.312	2.774	58548	22	0.255	11.427	58620	14	16.605	19.580					58755	14	2.606	7.756
58477	10	3.785	3.139	58549	26	0.268	11.428	58621	10	21.360	19.339					58756	9	10.615	7.668
58478	11	4.114	3.478	58550*	37	6.033	11.060	58622	13	23.372	19.212					58757	12	11.229	7.578
58479	13	4.660	3.218	58551	14	11.606	11.793	58623	23	23.585	19.508					58758	23	11.786	7.695
58480	11	9.366	3.036	58552*	32	12.917	11.049	58624	15	1.223	20.525					58759	10	12.650	7.628
58481	18	10.551	3.697	58553	19	13.428	11.295	58625	8	2.462	20.046					58760	17	15.674	7.254
58482*	34	11.514	3.837	58554	24	24.072	11.804	58626	10	2.552	20.457					58761	13	21.258	7.946
58483	25	12.435	3.116	58555	12	8.268	12.671	58627	14	4.490	20.852					58762	13	4.596	8.058
58484*	30	14.918	3.641	58556	12	14.037	12.000	58628	18	5.908	20.480					58763*	26	5.334	8.350
58485	9	17.240	3.065	58557	26	23.686	12.786	58629	14	12.200	20.676					58764	8	5.847	8.989
58486	13	17.367	3.045	58558	17	5.182	13.789	58630	18	20.192	20.910					58765	14	16.161	8.236
58487	9	0.362	4.485	58559	17	8.824	13.050	58631	10	23.735	20.484					58766	13	19.542	8.150
58488	17	5.111	4.254	58560*	32	13.900	13.519	58632	15	0.736	21.220					58767*	54	20.235	8.402
58489	8	5.501	4.068	58561	9	16.220	13.201	58633	18	3.053	21.260					58768*	23	21.188	8.818
58490	12	7.815	4.677	58562	29	17.399	13.230	58634*	36	3.058	21.558					58769	25	4.140	9.556
58491	13	8.335	4.357	58563	16	19.715	13.688	58635	13	3.842	21.951					58770*	29	7.680	9.031
58492	16	10.884	4.946	58564	14	19.896	13.130	58636	16	4.716	21.606					58771	10	15.519	9.218
58493	16	13.156	4.701	58565	11	22.590	13.636	58637	10	11.724	21.416					58772	10	18.066	9.948
58494	10	15.884	4.669	58566	9	22.613	13.386	58638	12	15.112	21.402					58773*	22	22.250	9.466
58495	22	18.738	4.880	58567	26	24.257	13.738	58639	32	16.138	21.514					58774	11	0.076	10.499
58496	14	19.955	4.620	58568	12	3.148	14.214	58640	9	16.855	21.360					58775	11	0.307	10.156
58497*	39	4.242	5.541	58569	14	17.102	14.314	58641	24	17.348	21.420					58776	24	1.718	10.020
58498*	38	4.642	5.936	58570	9	17.548	14.415	58642	34	17.606	21.414					58777	10	2.074	10.576
58499*	41	6.778	5.882	58571	15	20.753	14.808	58643	21	17.914	21.700					58778	15	2.142	10.028
58500	10	12.261	5.489	58572	18	21.352	14.858	58644	19	19.468	21.560					58779	14	2.355	10.227
58501	8	15.480	5.342	58573	9	25.652	14.722	58645	15	25.954	21.963					58780	12	6.093	10.579
58502	18	15.633	5.580	58574	16	25.824	14.994	58646	22	4.946	22.990					58781	10	7.866	10.860
58503*	45	22.462	5.216	58575*	33	1.328	15.258	58647	14	6.198	22.676					58782	20	8.593	10.685
58504	14	23.958	5.771	58576*	32	1.386	15.835	58648	16	7.367	22.807					58783	9	18.928	10.874
58505	12	4.874	5.666	58577	9	3.093	15.878	58649*	35	7.494	22.557					58784	12	20.330	10.688
58506	29	6.516	6.424	58578	23	3.938	15.170	58650	9	9.482	22.028					58785	12	21.513	10.096
58507	11	7.677	6.854	58579	20	5.599	15.964	58651	11	10.900	22.814					58786	18	24.341	10.956
58508	19	8.426	6.482	58580	14	13.100	15.342	58652*	43	12.015	22.063					58787	11	24.646	10.640
58509	14	13.538	6.668	58581	18	15.562	15.336	58653	25	12.082	22.086					58788	14	0.020	11.336
58510*	30	13.640	6.910	58582	8	21.602	15.114	58654	19	12.090	22.092					58789	19	6.426	11.411
58511	12	16.438	6.014	58583	31	3.382	16.788	58655	16	13.140	22.896					58790	20	15.741	11.400
58512	12	21.874	6.946	58584	24	7.916	16.592	58656	17	17.150	22.817					58791	10	18.366	11.274
58513*	27	6.632	7.054	58585	27	11.668	16.510	58657	11	17.296	22.424					58792	12	19.108	11.234
58514	21	10.850	7.716	58586*	30	14.810	16.912	58658	17	25.002	22.052					58793	16	21.166	11.424
58515	9	12.076	7.670	58587*	40	15.214	16.074	58659	21	0.934	23.316					58794	13	22.116	11.982
58516	14	12.735	7.285	58588	9	17.117	16.582	58660	16	3.650	23.800					58795	11	24.060	11.898
58517	11	15.418	7.142	58589	16	19.082	16.822	58661	27	8.482	23.482					58796	15	1.772	12.175
58518	13	16.914	7.736	58590*	32	20.790	16.074	58662	12	9.634	23.581					58797	11	17.838	12.226
58519	12	19.413	7.820	58591	11	21.235	16.098	58663*	42	15.788	23.862					58798	12	19.910	12.016
58520	27	20.642	7.751	58592	11	24.408	16.764	58664	13	18.014	23.990					58799	25	23.154	12.548
58521*	46	20.746	7.124	58593	34	25.532	16.420	58665	32	19.754	23.961					58800	9	23.958	12.814
58522	12	20.808	7.696	58594	31	1.401	17.722	58666*	30	22.108	23.522					58801	18	1.393	13.163
58523	9	24.778	7.460	58595*	48	2.482	17.738	58667	40	0.546	24.907					58802	15	12.413	13.474
58524	13	24.933	7.388	58596*	34	3.644	17.528	58668	28	0.737	24.382								

58807	8	20.632	13.468	58879	22	17.575	22.434	58970	14	2.285	2.665	59042*	30	19.431	8.204	59114*	19	3.630	16.986
58808	13	20.692	13.202	58880	18	18.628	22.826	58971	13	14.584	2.685	59043	28	22.886	8.044	59115	13	4.302	16.674
58809	13	22.246	13.215	58881	12	20.300	22.374	58972	28	18.111	2.332	59044	31	24.902	8.909	59116	12	5.667	16.210
58810	22	24.814	13.294	58882	21	24.652	22.874	58973	10	20.433	2.186	59045	39	25.132	8.438	59117	24	5.980	16.614
58811	18	1.967	14.107	58883	10	25.105	22.840	58974*	44	20.435	2.232	59046	35	0.286	9.236	59118	12	8.142	16.835
58812	12	6.219	14.326	58884	12	0.187	23.361	58975	16	23.530	2.805	59047	10	0.974	9.202	59119	10	10.700	16.562
58813*	38	8.338	14.062	58885	18	2.404	23.508	58976	29	24.179	2.561	59048	9	7.432	9.660	59120	13	13.315	16.376
58814	11	25.665	14.811	58886	14	5.429	23.491	58977	14	24.810	2.226	59049*	55	8.006	9.122	59121	14	16.943	16.672
58815	12	3.540	15.360	58887	20	6.864	23.117	58978	9	2.726	3.046	59050	15	14.037	9.528	59122	16	18.035	16.447
58816	13	11.254	15.936	58888	20	12.093	23.525	58979	14	4.586	3.122	59051	9	14.074	9.816	59123	13	24.162	16.444
58817*	29	13.481	15.212	58889	14	15.488	23.181	58980	19	7.550	3.053	59052	19	16.180	9.320	59124*	32	24.750	16.610
58818	14	15.063	15.165	58890	17	25.577	23.670	58981	8	9.711	3.522	59053	17	18.775	9.945	59125	8	0.558	17.086
58819	10	19.979	15.378	58891	12	2.844	24.754	58982	10	12.541	3.035	59054	10	21.150	9.212	59126	11	3.128	17.861
58820	10	21.504	15.906	58892	13	4.774	24.014	58983	10	12.872	3.687	59055	10	23.626	9.205	59127	8	5.491	17.118
58821	11	21.600	15.954	58893	8	7.836	24.122	58984	13	19.292	3.868	59056	29	2.400	10.699	59128	23	8.696	17.741
58822	20	25.125	15.807	58894	12	8.053	24.994	58985	33	21.574	3.077	59057	14	2.702	10.378	59129	15	9.508	17.714
58823	20	25.530	15.606	58895	22	15.130	24.583	58986*	40	21.645	3.935	59058	17	5.049	10.020	59130	19	20.744	17.780
58824*	27	3.256	16.785	58896	12	17.114	24.601	58987	32	21.684	3.561	59059	10	5.690	10.658	59131	23	22.083	17.783
58825	10	3.900	16.219	58897	20	17.464	24.842	58988	8	24.928	3.098	59060	12	6.840	10.648	59132	25	25.234	17.477
58826	20	10.232	16.404	58898	12	18.624	24.567	58989	39	0.348	4.450	59061	8	8.500	10.764	59133	10	0.417	18.771
58827	17	25.622	16.008	58899	10	20.437	24.219	58990	14	2.244	4.516	59062	12	18.029	10.025	59134	12	0.715	18.328
58828	9	7.256	17.250	58900	16	0.396	25.998	58991	9	3.110	4.562	59063	13	19.096	10.606	59135	22	1.089	18.194
58829	18	9.671	17.476	58901	12	2.474	25.828	58992*	46	5.619	4.424	59064	10	25.746	10.400	59136	11	1.436	18.222
58830	20	9.922	17.176	58902	25	2.485	25.842	58993*	60	7.078	4.323	59065	15	0.188	11.752	59137	11	1.096	18.882
58831*	38	15.505	17.706	58903	10	9.183	25.120	58994	8	7.510	4.572	59066	12	18.936	11.164	59138	13	5.330	18.452
58832	14	15.626	17.450	58904	15	10.112	25.250	58995	13	7.754	4.152	59067	17	19.454	11.314	59139	15	7.233	18.452
58833	12	16.784	17.052	58905	13	11.734	25.132	58996	25	7.892	4.974	59068	28	20.854	11.040	59140	11	8.454	18.965
58834*	47	21.546	17.192	58906	21	16.552	25.151	58997	16	11.887	4.480	59069	13	24.705	11.914	59141	10	9.302	18.789
58835	14	25.486	17.261	58907	24	22.301	25.426	58998	8	15.992	4.032	59070	8	25.232	11.190	59142	8	13.515	18.624
58836	20	4.642	18.696					58999	13	17.476	4.743	59071	11	0.336	12.986	59143	11	14.824	18.608
58837	12	5.190	18.826					59000	11	22.271	4.868	59072	32	1.236	12.306	59144*	31	17.266	18.919
58838	9	5.749	18.520					59001	8	0.440	5.213	59073	10	2.044	12.562	59145	14	24.758	18.402
58839	13	20.252	18.087					59002*	32	4.389	5.625	59074	10	5.430	12.310	59146	8	0.956	19.504
58840	10	20.808	18.106					59003	25	6.388	5.442	59075	10	9.997	12.690	59147	14	1.284	19.944
58841	13	22.554	18.562					59004	12	7.669	5.466	59076	14	12.612	12.483	59148	13	5.205	19.944
58842	8	22.850	18.624					59005	28	9.498	5.159	59077	9	19.453	12.200	59149	23	5.888	19.373
58843	16	22.930	18.432					59006	14	16.804	5.220	59078	10	20.297	12.601	59150	16	5.900	19.458
58844	13	23.274	18.467					59007	8	18.131	5.318	59079	13	21.152	12.212	59151	9	6.736	19.770
58845	10	25.224	18.666					59008	13	0.070	6.872	59080	8	24.166	12.186	59152*	48	7.678	19.938
58846	14	1.110	19.586					59009	10	0.217	6.786	59081	29	2.905	13.031	59153	16	8.660	19.934
58847	17	1.326	19.885					59010	15	2.595	6.068	59082	11	7.019	13.586	59154	10	8.917	19.015
58848	18	5.854	19.186					59011	9	3.002	6.383	59083	14	9.066	13.800	59155	14	11.650	19.150
58849	12	7.692	19.618					59012	15	3.554	6.860	59084	16	9.893	13.228	59156	29	11.851	19.424
58850*	44	8.430	19.021					59013	9	8.444	6.532	59085	8	11.971	13.566	59157	12	12.494	19.278
58851	10	10.084	19.794					59014	10	12.406	6.332	59086*	34	13.936	13.616	59158*	43	20.673	19.284
58852*	24	13.105	19.509					59015*	38	18.477	6.682	59087	10	22.436	13.928	59159	16	20.836	19.396
58853	12	17.274	19.158					59016*	29	19.316	6.951	59088	9	0.464	14.195	59160	8	24.964	19.346
58854	15	18.700	19.675					59017*	29	19.688	6.376	59089	12	3.778	14.532	59161	17	1.022	20.604
58855	18	19.560	19.570					59018	9	23.427	6.218	59090	10	5.748	14.850	59162	9	2.354	20.882
58856	13	23.826	19.134					59019	13	23.578	6.344	59091	9	9.803	14.584	59163	8	2.364	20.519
58857	10	3.942	20.212					59020	9	24.582	6.718	59092	11	13.880	14.574	59164	9	2.458	20.298
58858	13	5.891	20.766					59021	15	25.462	6.948	59093	10	14.036	14.329	59165	9	4.163	20.500
58859	12	6.090	20.200					59022	8	0.445	7.245	59094*	44	14.184	14.681	59166	8	5.014	20.268
58860	10	6.847	20.674					59023	8	4.480	7.280	59095	14	17.055	14.472	59167	26	6.060	20.040
58861	13	6.900	20.703					59024	11	8.843	7.332	59096	8	19.706	14.434	59168	12	7.768	20.634
58862	14	7.041	20.886					59025	8	10.070	7.958	59097	8	22.670	14.258	59169	28	10.950	20.012
58863	10	15.386	20.447					59026	9	11.154	7.251	59098*	34	23.003	14.218	59170	13	11.910	20.294
58864	18	16.773	20.428					59027	13	11.281	7.128	59099	16	24.435	14.774	59171	12	3.880	21.635
58865	11	17.613	20.886					59028	29	13.654	7.174	59100	8	24.606	14.060	59172	12	10.338	21.219
58866	12	18.302	20.395					59029	12	14.652	7.374	59101	11	1.378	15.595	59173	8	10.898	21.416
58867	18	22.828	20.843					59030	10	14.970	7.654	59102	8	3.185	15.984	59174	8	14.173	21.158
58868*	20	14.379	21.496					59031	8	15.055	7.783	59103*	31	3.250	15.538	59175	21	14.918	21.504
58869*	21	15.777	21.568					59032	8	16.128	7.032	59104	27	3.651	15.330	59176	10	22.623	21.182
58870*	32	20.840	21.577					59033	23	20.970	7.734	59105	13	3.746	15.732	59177	31	2.874	22.607
58871	14	21.264	21.724					59034	18	22.036	7.396	59106	8	4.778	15.970	59178	9	3.900	22.438
58872	10	24.158	21.144					59035	8	23.876	7.046	59107	26	4.915	15.404	59179	28	6.328	22.949
58873	20	2.757	22.422					59036	10	25.386	7.925	59108*	27	7.623	15.415	59180	28		

59186	11	18.968	22.818	59258	32	3.652	1.284	59330	14	6.996	8.528	59402	34	20.543	15.102	59474	13	11.130	23.380
59187	9	2.574	23.840	59259*	27	5.438	1.189	59331	17	15.190	8.350	59403*	36	20.796	15.154	59475	11	15.208	23.256
59188	18	3.812	23.392	59260	10	12.444	1.296	59332*	30	21.802	8.750	59404	17	1.521	16.719	59476	12	15.648	23.576
59189	8	4.030	23.865	59261	12	16.341	1.444	59333	10	25.328	8.166	59405*	41	2.110	16.880	59477	26	25.216	23.056
59190	14	5.631	23.645	59262	24	18.406	1.149	59334	15	0.920	9.484	59406	27	8.798	16.894	59478*	47	4.830	24.557
59191*	46	6.055	23.916	59263	15	18.902	1.875	59335	38	2.196	9.177	59407	28	8.828	16.485	59479	27	13.645	24.023
59192	8	6.532	23.232	59264	16	21.574	1.582	59336	25	3.735	9.653	59408	27	13.924	16.664	59480	11	14.162	24.144
59193	10	6.766	23.122	59265	16	0.292	2.252	59337	14	4.780	9.590	59409	21	17.487	16.432	59481	20	15.233	24.052
59194	13	6.894	23.606	59266	21	0.514	2.173	59338	11	6.676	9.225	59410	19	22.010	16.270	59482	13	17.402	24.670
59195	28	10.893	23.284	59267	46	1.418	2.832	59339	13	7.222	9.782	59411	20	22.328	16.380	59483	29	20.934	24.435
59196	8	11.910	23.678	59268	25	2.050	2.494	59340	39	10.592	9.540	59412	20	22.654	16.506	59484	26	2.715	25.474
59197	10	13.880	23.318	59269	12	2.715	2.217	59341	13	10.760	9.733	59413	27	2.602	17.742	59485	11	6.236	25.008
59198	22	14.136	23.089	59270	19	4.714	2.764	59342	11	11.494	9.545	59414	11	7.620	17.265	59486	11	7.332	25.718
59199	10	14.300	23.546	59271	11	9.486	2.787	59343	24	12.224	9.256	59415	13	9.820	17.949	59487	59	7.396	25.822
59200	10	15.365	23.312	59272	25	14.071	2.392	59344	23	13.350	9.874	59416	12	15.148	17.172	59488	12	9.416	25.226
59201	14	15.944	23.140	59273	10	16.144	2.677	59345	26	15.363	9.665	59417*	41	15.438	17.980	59489	17	10.225	25.735
59202	9	17.560	23.144	59274*	82	23.121	2.443	59346	12	19.904	9.255	59418	19	20.661	17.025	59490	15	10.476	25.058
59203	21	21.665	23.482	59275	34	23.286	2.047	59347	27	23.024	9.766	59419	12	0.281	18.045	59491	21	10.698	25.558
59204	9	23.786	23.039	59276	11	23.377	2.011	59348*	50	6.558	10.434	59420	10	0.443	18.244	59492	41	11.327	25.470
59205*	34	9.050	24.631	59277	26	0.775	3.082	59349	15	12.038	10.594	59421	17	2.135	18.674	59493	23	11.878	25.618
59206	15	15.623	24.195	59278	13	2.174	3.364	59350	21	12.586	10.010	59422*	30	9.815	18.478	59494	13	18.200	25.582
59207	11	16.530	24.042	59279	24	4.724	3.253	59351	23	17.664	10.797	59423	17	11.686	18.692	59495	25	20.146	25.088
59208	8	17.082	24.476	59280	12	6.448	3.569	59352	26	19.150	10.058	59424	17	13.031	18.797	59496	10	21.121	25.062
59209*	35	18.925	24.430	59281	24	15.630	3.754	59353*	72	23.955	10.442	59425*	40	13.290	18.970				
59210*	36	20.024	24.348	59282	12	18.156	3.238	59354	10	24.478	10.485	59426	17	14.420	18.024				
59211	35	0.557	25.192	59283	16	0.376	4.108	59355	13	2.547	11.458	59427	34	16.250	18.149				
59212	18	4.115	25.611	59284	21	3.873	4.207	59356	11	15.538	11.012	59428	22	17.950	18.250				
59213	12	4.623	25.883	59285*	62	4.602	4.470	59357*	36	17.548	11.250	59429	15	18.664	18.711				
59214	8	4.825	25.761	59286	13	6.484	4.607	59358	27	17.583	11.290	59430	14	25.354	18.886				
59215	13	5.276	25.674	59287*	49	11.750	4.891	59359	12	17.940	11.064	59431	12	0.747	19.295				
59216	11	6.096	25.794	59288	27	12.018	4.428	59360	11	17.983	11.793	59432	14	2.350	19.615				
59217	8	6.772	25.612	59289	22	12.180	4.308	59361	10	22.212	11.734	59433	16	6.187	19.244				
59218	21	6.978	25.722	59290	23	14.583	4.542	59362	35	23.100	11.660	59434	18	8.220	19.564				
59219	15	9.386	25.816	59291	12	15.976	4.974	59363	11	23.352	11.180	59435	17	8.512	19.680				
59220	10	13.334	25.552	59292	22	15.996	4.644	59364	16	23.704	11.840	59436*	35	10.293	19.826				
59221	40	13.874	25.606	59293	25	17.493	4.652	59365	22	24.512	11.390	59437	20	11.245	19.043				
59222	13	15.430	25.930	59294	17	18.824	4.237	59366	12	25.341	11.713	59438	15	13.709	19.900				
59223	18	16.716	25.803	59295	11	19.554	4.776	59367	12	1.491	12.463	59439	25	15.530	19.734				
59224	11	22.276	25.246	59296	25	20.220	4.790	59368	18	2.026	12.184	59440	10	15.832	19.040				
59225	14	25.279	25.203	59297	20	20.514	4.718	59369*	60	9.764	12.586	59441	16	15.850	19.150				
59226	10	25.665	25.830	59298	24	22.719	4.550	59370	23	13.068	12.530	59442*	44	20.640	19.056				
				59299	22	23.692	4.946	59371	13	15.100	12.610	59443	25	22.028	19.129				
				59300	19	23.740	4.740	59372	14	17.750	12.420	59444	10	25.822	19.568				
				59301	15	24.017	4.532	59373	10	19.284	12.167	59445	12	3.192	20.170				
				59302	14	4.740	5.750	59374	21	19.784	12.914	59446	22	3.733	20.754				
				59303	14	6.039	5.619	59375	10	21.035	12.978	59447	21	4.214	20.166				
				59304	39	7.524	5.176	59376	25	22.220	12.720	59448	29	5.740	20.822				
				59305	10	16.827	5.523	59377	10	8.119	13.741	59449	10	5.774	20.930				
				59306	27	18.468	5.834	59378	16	8.470	13.520	59450	15	6.558	20.672				
				59307	18	20.194	5.176	59379	11	8.518	13.732	59451	14	12.100	20.745				
				59308	37	20.782	5.074	59380	22	12.410	13.938	59452	10	13.131	20.950				
				59309	27	22.874	5.594	59381	10	14.846	13.816	59453*	67	14.712	20.088				
				59310	38	23.464	5.675	59382	27	17.090	13.734	59454	16	0.024	21.472				
				59311	13	0.701	6.500	59383	12	0.010	14.546	59455	15	7.848	21.576				
				59312	22	0.851	6.622	59384	51	0.341	14.502	59456	27	10.307	21.331				
				59313	14	1.860	6.990	59385	12	1.948	14.331	59457	12	11.590	21.107				
				59314	19	11.836	6.720	59386	13	4.965	14.040	59458	10	13.238	21.910				
				59315	20	19.328	6.718	59387*	53	9.470	14.672	59459	14	16.385	21.876				
				59316	24	21.638	6.247	59388	15	10.032	14.526	59460	16	24.237	21.643				
				59317	30	21.946	6.240	59389*	30	24.294	14.547	59461	12	3.359	22.941				
				59318	11	22.760	6.902	59390	46	25.734	14.615	59462	11	8.838	22.890				
				59319	11	24.250	6.374	59391	19	1.780	15.048	59463*	48	13.750	22.857				
				59320	21	2.739	7.214	59392	17	6.643	15.335	59464	18	17.390	22.686				
				59321	22	2.797	7.830	59393	13	7.154	15.016	59465	18	17.602	22.394				
				59322	10	7.050	7.739	59394	14	12.718	15.175	59466	24	19.118	22.841				
				59323	13	9.980	7.938	59395	17	13.410	15.020	59467	12	19.238	22.972				
				59324	13	11.955	7.200	59396	20	13.922	15.112	59468	19	20.297	22.200				
				59325	11	18.914	7.817	59397	27	15.620	15.408	59469	11	23.308	22.952				
				59326	29	0.172	8.328	59398*	65	16.067	15.156	59470	16	1.204	23.318				
				59327*	56	2.420	8.705	59399	15	16.280	15.575	59471	13	1.594	23.074				
				59328	16	2.674	8.188	59400	17	17.154	15.500	59472	10	2.515	23.404				
				59329	12</														

59526	13	25.830	2.504	59598	11	5.530	9.132	59670	10	10.100	16.780	59742	10	6.136	24.108	59829*	60	20.060	2.650
59527	9	1.265	3.124	59599	19	5.813	9.646	59671	8	11.824	16.228	59743	8	6.725	24.883	59830	21	20.962	2.188
59528	17	9.124	3.319	59600*	29	9.004	9.296	59672	20	15.860	16.166	59744*	25	7.658	24.814	59831	34	23.927	2.846
59529	9	9.682	3.352	59601	14	12.736	9.505	59673	10	16.320	16.182	59745*	46	10.890	24.608	59832	27	25.480	2.253
59530	10	10.432	3.075	59602	13	14.708	9.499	59674	9	20.060	16.534	59746	25	13.700	24.074	59833	13	4.128	3.200
59531	10	15.340	3.963	59603	10	17.703	9.617	59675	10	20.810	16.258	59747	10	13.706	24.323	59834*	45	5.462	3.823
59532*	26	17.642	3.431	59604	11	18.498	9.143	59676	11	21.570	16.668	59748	10	14.312	24.164	59835	15	11.250	3.536
59533*	32	18.387	3.853	59605	12	24.199	9.719	59677*	29	4.718	17.616	59749	10	14.954	24.270	59836*	40	11.584	3.047
59534	14	19.614	3.695	59606*	64	2.016	10.350	59678	10	4.881	17.818	59750	8	16.096	24.804	59837*	40	12.235	3.802
59535	16	22.361	3.697	59607	10	2.542	10.386	59679	10	6.870	17.474	59751	22	16.128	24.827	59838	23	12.736	3.558
59536	20	0.684	4.584	59608	11	4.775	10.846	59680	10	11.696	17.198	59752	10	17.278	24.754	59839	17	21.646	3.612
59537	15	1.666	4.864	59609	8	4.802	10.623	59681	8	17.084	17.604	59753	11	17.664	24.966	59840	22	22.222	3.187
59538	15	1.708	4.655	59610	11	8.976	10.538	59682	11	20.610	17.414	59754	80	19.701	24.989	59841*	62	22.230	3.996
59539	10	1.987	4.445	59611	14	9.058	10.402	59683	10	25.934	17.198	59755	8	21.743	24.339	59842	12	25.094	3.851
59540	9	4.740	4.575	59612	16	12.828	10.574	59684	8	1.060	18.149	59756	14	3.926	25.294	59843	18	1.182	4.985
59541	11	8.227	4.384	59613	8	14.594	10.601	59685	8	1.622	18.268	59757	8	4.570	25.835	59844	16	1.604	4.518
59542	10	10.462	4.916	59614	19	15.660	10.853	59686	10	3.564	18.770	59758	10	15.011	25.464	59845	24	3.428	4.289
59543	10	11.020	4.095	59615	8	18.950	10.210	59687*	24	4.606	18.144	59759	10	17.025	25.057	59846*	21	8.644	4.588
59544	16	13.101	4.416	59616	8	19.434	10.562	59688*	24	4.747	18.228	59760	10	18.362	25.297	59847	12	8.866	4.452
59545	12	13.101	4.426	59617	8	23.656	10.917	59689*	60	5.830	18.434	59761	26	22.801	25.680	59848	11	11.337	4.106
59546	22	15.367	4.385	59618	9	0.298	11.675	59690	14	6.926	18.887	59762	13	23.728	25.979	59849	10	11.619	4.279
59547	8	20.045	4.567	59619	27	1.190	11.584	59691	12	7.500	18.495	59763	22	24.485	25.170	59850	29	13.156	4.948
59548	12	20.050	4.884	59620	10	1.434	11.098	59692	10	8.606	18.558					59851	11	16.831	4.571
59549	10	20.808	4.186	59621	13	1.796	11.754	59693	8	8.754	18.793					59852	11	17.016	4.537
59550	11	23.676	4.687	59622	15	2.594	11.293	59694	13	13.084	18.634					59853	24	0.998	5.705
59551	12	24.098	4.223	59623	10	4.178	11.913	59695	11	17.384	18.764					59854*	52	1.916	5.454
59552	16	25.920	4.006	59624	15	8.212	11.703	59696*	31	19.622	18.508					59855	35	4.005	5.036
59553	20	0.857	5.524	59625	14	9.106	11.089	59697	8	19.748	18.850					59856	10	5.850	5.369
59554	29	1.448	5.594	59626	11	17.260	11.638	59698	10	20.988	18.065					59857	13	8.416	5.446
59555	13	4.964	5.392	59627	8	17.590	11.700	59699	22	0.243	19.072					59858	15	9.273	5.484
59556	11	5.072	5.788	59628	20	0.324	12.659	59700	9	4.042	19.444					59859	11	9.846	5.034
59557	11	6.792	5.630	59629*	49	12.486	12.072	59701*	48	14.924	19.180					59860	15	10.420	5.870
59558	11	7.746	5.031	59630	22	18.139	12.114	59702	18	17.037	19.838					59861	29	14.140	5.393
59559	14	9.146	5.620	59631	10	19.200	12.707	59703	9	18.380	19.025					59862	33	16.837	5.130
59560	21	9.610	5.362	59632	17	23.966	12.150	59704*	58	23.835	19.654					59863	15	17.328	5.538
59561	10	11.530	5.926	59633	8	9.148	13.950	59705	8	1.580	20.732					59864	33	19.134	5.107
59562	15	21.962	5.640	59634*	21	10.676	13.057	59706	13	14.224	20.756					59865	17	19.218	5.843
59563	15	23.484	5.405	59635	21	12.090	13.816	59707	13	15.400	20.715					59866	21	19.628	5.344
59564*	45	24.410	5.159	59636	15	12.360	13.787	59708	9	15.442	20.594					59867	12	20.099	5.700
59565	13	7.886	6.830	59637	22	15.803	13.088	59709	18	20.318	20.064					59868	36	24.127	5.524
59566	22	8.168	6.210	59638*	25	16.275	13.556	59710	11	22.900	20.078					59869	11	24.852	5.458
59567	10	9.187	6.294	59639	8	16.343	13.558	59711	14	2.497	21.546					59870	13	4.623	6.123
59568	9	12.918	6.310	59640	8	16.879	13.960	59712	10	4.215	21.174					59871	12	6.255	6.476
59569	8	13.134	6.872	59641	8	20.079	13.198	59713*	60	4.994	21.976					59872	11	11.568	6.148
59570	9	14.356	6.936	59642	20	20.756	13.100	59714	13	5.687	21.722					59873	15	12.093	6.807
59571	14	15.817	6.623	59643	8	22.126	13.464	59715	8	7.220	21.546					59874	12	12.926	6.196
59572	18	16.337	6.438	59644	17	22.736	13.922	59716	15	8.251	21.124					59875	23	21.151	6.632
59573*	60	16.517	6.160	59645	9	23.853	13.944	59717	8	9.476	21.250					59876	13	16.666	7.108
59574	9	18.689	6.806	59646	10	25.207	13.390	59718	8	15.647	21.244					59877	21	19.610	7.745
59575	8	18.752	6.402	59647*	24	2.430	14.452	59719	16	16.404	21.837					59878	24	21.462	7.425
59576	8	25.488	6.765	59648*	33	3.873	14.494	59720	12	16.477	21.128					59879	18	23.289	7.928
59577	10	5.158	7.900	59649	11	4.240	14.480	59721	9	18.152	21.069					59880	15	24.250	7.538
59578*	60	5.450	7.966	59650	9	6.016	14.306	59722	10	21.720	21.795					59881	12	1.382	8.168
59579	10	6.308	7.662	59651	10	12.058	14.441	59723	12	22.580	21.705					59882	12	7.047	8.259
59580	12	8.384	7.629	59652	9	15.858	14.857	59724	9	1.590	22.871					59883	29	8.123	8.145
59581	10	9.244	7.950	59653*	21	18.460	14.538	59725	17	3.500	22.942					59884	21	10.328	8.217
59582	17	16.084	7.424	59654	8	20.458	14.346	59726	10	4.282	22.915					59885*	27	10.919	8.084
59583	8	19.120	7.866	59655	11	20.657	14.624	59727	24	10.962	22.404					59886	13	15.420	8.532
59584	10	20.762	7.427	59656	12	5.410	15.975	59728	11	12.159	22.830					59887	26	16.206	8.362
59585	9	23.848	7.874	59657	11	7.240	15.128	59729	12	17.278	22.078					59888	12	19.126	8.814
59586	10	24.473	7.700	59658	9	10.458	15.746	59730	10	17.682	22.966					59889	31	19.482	8.918
59587	9	5.434	8.007	59659*	22	11.651	15.532	59731	9	21.798	22.179					59890	10	3.796	9.998
59588	10	8.700	8.093	59660	10	20.127	15.175	59732	15	9.644	23.072					59891	10	5.235	9.188
59589	13	12.093	8.428	59661*	34	21.354	15.900	59733	11	11.269	23.936					59892	12	5.238	9.271
59590	8	15.070	8.935	59662	9	23.564	15.364	59734*	36	11.375	23.867					59893	28	8.270	9.625
59591	11	16.710	8.682	59663	12	23.956	15.709	59735	12	11.806	23.358					59894	14	11.558	9.210
59592	25	18.424	8.746	59664	11	0.177	16.210	59736	17	12.270	23.544					59895	12	12.257	9.062
59593	20	20.492	8.194	59665	14	0.496	16.314	59737*	40	13.688	23.822					59896	22	16.804	9.804

59901	24	4.545	10.745	59973*	41	24.405	18.453	<div>R.A. 20^h 16^m</div> <div>Plate 1097 ; 1917 Oct. 13.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>−02568 +00485 +0156</div> <div>D E F</div> <div>−00483 −02568 −2026</div> <div>Mag. = 16.1 − 1.05√ d</div>	60106	34	20.470	5.246	60178	22	8.760	12.383
59902	17	7.466	10.244	59974	30	24.438	18.264		60107	23	22.261	5.076	60179	18	11.817	12.621
59903	25	9.250	10.612	59975*	60	1.440	19.952		60108	14	23.281	5.874	60180	24	16.535	12.830
59904	19	10.779	10.716	59976	21	7.162	19.136		60109	37	5.368	6.888	60181	23	16.745	12.464
59905	26	14.029	10.230	59977*	40	8.807	19.666		60110	36	6.032	6.142	60182	28	20.784	12.500
59906	10	15.976	10.274	59978*	40	17.310	19.219		60111	20	9.087	6.821	60183	21	21.922	12.007
59907	14	19.428	10.380	59979	14	18.848	19.764		60112	14	9.642	6.408	60184	32	23.680	12.736
59908	12	21.354	10.935	59980	12	19.279	19.385		60113	16	9.982	6.015	60185	13	24.194	12.312
59909	18	21.642	10.589	59981	14	20.108	19.146		60114*	37	11.875	6.864	60186	23	25.700	12.926
59910	26	23.466	10.658	59982*	65	24.520	19.066		60115	16	15.600	6.499	60187	19	0.760	13.886
59911	40	25.725	10.900	59983	12	25.822	19.324	60116	35	17.104	6.944	60188	28	2.113	13.891	
59912	8	7.028	11.114	59984	13	0.514	20.382	60117	18	19.474	6.368	60189	24	4.557	13.478	
59913	11	10.894	11.481	59985	12	4.798	20.850	60118	19	19.746	6.348	60190	18	14.746	13.846	
59914	11	13.890	11.666	59986	24	4.880	20.686	60119	20	2.050	7.676	60191	20	21.148	13.709	
59915	10	15.653	11.408	59987	12	6.159	20.369	60120	32	5.116	7.076	60192*	34	23.640	13.058	
59916	10	18.183	11.524	59988	19	9.372	20.816	60121	24	8.434	7.179	60193*	26	23.709	13.502	
59917	26	18.744	11.870	59989	12	11.163	20.380	60122	15	10.044	7.401	60194	16	2.185	14.114	
59918	22	24.505	11.676	59990*	42	12.204	20.260	60123	21	10.943	7.468	60195*	70	4.456	14.432	
59919	10	25.415	11.873	59991*	44	12.538	20.670	60124	42	13.454	7.351	60196	14	4.489	14.795	
59920	27	1.524	12.449	59992	13	14.253	20.070	60125	17	16.245	7.824	60197	26	6.460	14.912	
59921	12	9.858	12.426	59993	21	16.074	20.250	60126	18	16.476	7.792	60198	15	7.064	14.864	
59922*	50	13.365	12.117	59994	11	19.826	20.534	60127*	38	18.852	7.690	60199*	28	14.818	14.088	
59923	27	16.631	12.227	59995	14	19.835	20.312	60128	25	21.407	7.625	60200	21	18.745	14.156	
59924	26	20.204	12.067	59996	25	20.600	20.710	60129	18	1.098	8.083	60201*	34	21.840	14.394	
59925	18	22.334	12.382	59997	10	22.219	20.346	60130	26	5.923	8.366	60202	34	21.862	14.846	
59926	20	23.241	12.634	59998	22	24.038	20.195	60131	26	9.256	8.024	60203	35	23.498	14.640	
59927	40	24.368	12.154	59999	13	1.978	21.253	60132	20	9.334	8.844	60204	12	1.620	15.209	
59928*	33	5.815	13.804	60000	14	8.332	21.238	60133	22	11.516	8.008	60205	16	7.236	15.373	
59929	14	8.808	13.156	60001	26	17.748	21.136	60134	28	13.700	8.521	60206	17	10.477	15.531	
59930	10	16.404	13.938	60002	12	20.805	21.122	60135	22	19.174	8.800	60207	17	20.064	15.615	
59931	13	16.947	13.257	60003*	64	21.714	21.006	60136	16	19.224	8.524	60208	14	20.562	15.322	
59932	11	20.258	13.576	60004	14	0.204	22.016	60137	28	19.408	8.028	60209	18	20.784	15.830	
59933	13	20.767	13.525	60005	19	6.240	22.604	60138	20	20.174	8.408	60210	22	23.604	15.255	
59934	16	21.071	13.866	60006	40	6.452	22.574	60139	19	20.528	8.982	60211	30	23.700	15.340	
59935	12	23.880	13.172	60007	26	9.110	22.597	60140	16	22.018	8.728	60212	24	25.142	15.648	
59936	25	24.248	13.750	60008	16	10.741	22.376	60141*	40	23.091	8.252	60213	20	0.585	16.842	
59937	14	25.459	13.711	60009	22	12.239	22.887	60142	18	25.450	8.624	60214	34	1.816	16.704	
59938	22	0.306	14.230	60010	26	12.456	22.830	60143	21	3.636	9.227	60215	21	18.060	16.241	
59939	10	3.102	14.512	60011	14	12.914	22.803	60144	19	4.606	9.818	60216	26	19.047	16.344	
59940	14	4.008	14.066	60012	16	17.777	22.829	60145	22	9.533	9.856	60217	19	19.520	16.431	
59941	13	16.242	14.184	60013	10	19.460	22.398	60146	34	9.787	9.309	60218	16	6.463	17.464	
59942	10	1.144	15.666	60014	23	19.997	22.826	60147	17	10.099	9.412	60219	15	8.592	17.682	
59943	11	6.360	15.604	60015	14	20.226	22.960	60148	14	13.706	9.172	60220*	68	10.434	17.938	
59944	12	9.244	15.026	60016	12	24.262	23.424	60149	24	15.356	9.916	60221	19	11.164	17.016	
59945	19	10.272	15.005	60017	10	3.080	23.032	60150	17	17.528	9.317	60222	18	12.241	17.614	
59946	13	15.126	15.572	60018	12	4.367	23.289	60151	20	18.294	9.366	60223	21	13.126	17.718	
59947	22	20.303	15.484	60019	25	6.021	23.390	60152	21	24.066	9.586	60224	19	13.197	17.129	
59948	18	20.740	15.099	60020	17	9.080	23.220	60153	16	24.915	9.314	60225	21	14.134	17.260	
59949	12	23.740	15.066	60021	14	14.046	23.788	60154	30	1.300	10.806	60226	22	17.222	17.224	
59950	13	1.540	16.007	60022	25	16.445	23.964	60155*	42	7.194	10.124	60227	34	18.848	17.487	
59951	11	3.900	16.280	60023	26	22.692	23.390	60156	22	7.904	10.800	60228	32	19.362	17.988	
59952	10	13.004	16.880	60024	16	4.398	24.828	60157*	48	8.328	10.235	60229	16	21.492	17.759	
59953	10	14.880	16.118	60025	18	9.801	24.629	60158	16	14.080	10.992	60230	16	22.380	17.196	
59954	14	16.670	16.617	60026*	45	9.974	24.288	60159	34	14.849	10.001	60231	23	23.414	17.487	
59955	10	20.577	16.012	60027	10	11.202	24.730	60160	19	18.250	10.578	60232*	39	2.318	18.590	
59956*	38	21.475	16.365	60028	11	13.186	24.320	60161	20	20.701	10.741	60233	25	2.346	18.400	
59957	12	22.694	16.686	60029	40	16.957	24.568	60162	23	2.349	11.810	60234	20	5.242	18.686	
59958	32	23.923	16.562	60030	20	20.710	24.436	60163	15	2.487	11.146	60235	17	5.734	18.530	
59959	10	3.528	17.486	60031	36	0.454	25.086	60164*	44	3.560	11.023	60236	16	17.492	18.064	
59960	27	5.550	17.988	60032	33	2.132	25.466	60165	27	12.252	11.634	60237*	42	17.866	18.669	
59961*	48	8.529	17.584	60033	19	6.246	25.784									

60250	27	22.258	19.794	<div>R.A. 20^h 24^m</div> <div>Plate 1099 ; 1917 Oct. 14.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—02494 +00707 —2569</div> <div>D E F</div> <div>—00718 —02531 +1029</div> <div>Mag.=16.2—1.05√<i>d</i></div>	60406	40	5.593	4.683	60478	16	9.110	9.116	60550	25	1.150	15.666
60251	17	23.301	19.264		60407	17	8.888	4.220	60479	14	9.142	9.758	60551	29	1.247	15.749
60252	18	1.966	20.336		60408	31	10.184	4.612	60480	21	9.985	9.713	60552	28	3.563	15.604
60253	21	5.120	20.274		60409	13	10.706	4.516	60481*	82	10.524	9.962	60553	11	5.176	15.162
60254	22	6.032	20.336		60410	13	13.047	4.163	60482*	41	12.205	9.624	60554	27	8.315	15.236
60255	28	13.718	20.075		60411	19	14.468	4.056	60483*	44	14.534	9.349	60555	14	8.338	15.294
60256*	54	16.660	20.145		60412*	47	19.696	4.968	60484	20	16.362	9.401	60556	25	8.546	15.401
60257	29	19.100	20.135		60413	15	20.162	4.992	60485	38	18.690	9.128	60557*	76	10.596	15.095
60258*	36	19.654	20.422		60414	23	21.096	4.336	60486	16	19.412	9.124	60558	26	10.781	15.142
60259	46	25.716	20.508		60415	41	22.206	4.600	60487	33	19.673	9.648	60559	17	12.929	15.072
60260	16	4.059	21.386	60416	25	22.406	4.536	60488	16	24.432	9.740	60560	30	13.468	15.088	
60261	14	4.742	21.758	60417	21	23.507	4.742	60489	21	5.690	10.031	60561	30	13.642	15.747	
60262	36	6.040	21.471	60418	21	23.744	4.494	60490	12	6.458	10.324	60562	27	16.497	15.248	
60263	20	8.766	21.730	60419	17	3.359	5.698	60491	10	6.982	10.940	60563	37	16.906	15.360	
60264	18	9.642	21.979	60420*	42	6.158	5.672	60492	15	7.003	10.938	60564	18	19.429	15.397	
60265	14	10.377	21.716	60421	16	6.903	5.630	60493	40	9.904	10.591	60565	27	20.076	15.838	
60266*	50	10.614	21.716	60422	12	7.664	5.277	60494	23	9.968	10.285	60566	24	25.854	15.702	
60267	18	13.086	21.374	60423	23	11.903	5.864	60495	16	10.044	10.958	60567	26	2.693	16.036	
60268	19	15.876	21.444	60424	12	12.120	5.528	60496	21	11.191	10.932	60568	17	7.115	16.112	
60269	16	16.156	21.104	60425	10	12.782	5.761	60497	15	12.102	10.214	60569*	42	8.934	16.371	
60270	19	16.374	21.650	60426*	40	13.900	5.260	60498	12	14.232	10.488	60570	25	10.244	16.544	
60271	21	17.824	21.838	60427	19	19.840	5.592	60499	25	16.876	10.637	60571	18	11.464	16.857	
60272	21	19.750	21.429	60428	14	22.218	5.598	60500	14	19.436	10.051	60572	31	14.098	16.970	
60273	22	21.100	21.882	60429	20	24.532	5.838	60501	18	22.507	10.925	60573	20	15.028	16.000	
60274	18	21.887	21.866	60430	16	0.705	6.288	60502	26	23.017	10.596	60574	16	15.377	16.086	
60275*	58	24.332	21.852	60431	12	4.317	6.752	60503	34	23.426	10.606	60575	12	19.814	16.336	
60276	16	2.214	22.558	60432	13	5.116	6.384	60504	10	0.975	11.671	60576	26	21.385	16.541	
60277	26	8.841	22.952	60433*	42	5.329	6.052	60505	14	3.815	11.052	60577	29	0.992	17.900	
60278*	36	11.529	22.612	60434	10	6.364	6.492	60506	12	6.599	11.888	60578	22	6.898	17.933	
60279	29	13.186	22.928	60435	12	9.736	6.860	60507	10	9.242	11.963	60579*	39	7.388	17.228	
60280	25	14.253	22.365	60436	32	12.900	6.164	60508	31	13.408	11.091	60580	12	11.311	17.642	
60281	17	20.154	22.472	60437	34	16.584	6.352	60509	25	13.468	11.603	60581	20	12.188	17.684	
60282	32	0.651	23.544	60438*	45	17.115	6.512	60510	29	14.004	11.935	60582	26	13.118	17.234	
60283	36	9.780	23.468	60439	25	20.130	6.106	60511	25	16.084	11.420	60583	12	13.155	17.095	
60284	20	14.094	23.069	60440	22	21.879	6.816	60512	14	18.994	11.387	60584	12	16.176	17.015	
60285	17	23.992	23.182	60441	30	25.175	6.440	60513	32	0.344	12.118	60585	30	16.716	17.338	
60286	20	10.264	24.326	60442	21	3.529	7.515	60514	26	1.639	12.182	60586*	51	17.276	17.572	
60287*	44	10.990	24.718	60443	25	8.392	7.418	60515	12	3.951	12.168	60587	15	18.358	17.274	
60288*	52	14.514	24.186	60444	30	9.677	7.847	60516	21	5.302	12.348	60588	15	18.484	17.836	
60289*	37	18.830	24.699	60445	18	12.392	7.034	60517	17	9.047	12.116	60589	24	20.466	17.552	
60290	20	19.927	24.023	60446	20	13.610	7.850	60518	13	15.054	12.969	60590	16	23.138	17.866	
60291*	44	21.993	24.383	60447	31	14.063	7.254	60519	20	15.925	12.666	60591	13	1.687	18.797	
60292	20	22.524	24.800	60448	11	14.166	7.404	60520	22	17.501	12.152	60592	22	5.892	18.528	
60293	17	4.454	25.034	60449	19	14.870	7.218	60521	20	20.338	12.188	60593	27	6.207	18.221	
60294	25	4.597	25.503	60450	29	18.246	7.760	60522	20	22.774	12.662	60594	25	8.060	18.296	
60295	21	6.724	25.367	60451	19	19.524	7.318	60523*	34	1.158	13.468	60595	14	8.564	18.252	
60296	18	6.849	25.676	60452	15	23.114	7.602	60524	34	1.195	13.144	60596	20	9.974	18.248	
60297	20	9.918	25.047	60453	26	23.332	7.908	60525*	34	1.234	13.912	60597	10	13.622	18.646	
60298	27	10.768	25.820	60454	11	23.980	7.314	60526	27	3.216	13.308	60598	31	15.573	18.497	
60299	27	12.380	25.294	60455*	42	0.544	8.668	60527	14	7.988	13.866	60599*	42	18.472	18.254	
60300	23	14.284	25.719	60456	14	3.400	8.021	60528	14	11.540	13.884	60600	10	20.552	18.807	
60301	26	15.076	25.666	60457	22	5.484	8.852	60529	22	11.700	13.011	60601	17	0.899	19.680	
60302	20	16.394	25.370	60458	19	7.864	8.122	60530	16	12.593	13.362	60602	28	4.810	19.256	
60303	16	16.669	25.480	60459*	45	8.896	8.774	60531	28	12.902	13.540	60603	12	5.146	19.816	
60304	26	17.582	25.410	60460	13	9.270	8.425	60532	21	16.812	13.290	60604*	140	5.896	19.065	
60305	40	20.518	25.198	60461	30	12.585	8.590	60533	26	18.866	13.678	60605	14	6.571	19.160	
				60462	20	16.352	8.546	60534	27	19.066	13.976	60606	23	6.941	19.970	
				60463	23	18.965	8.660	60535	12	23.218	13.246	60607	13	7.678	19.170	
				60464	12	19.004	8.175	60536	14	23.426	13.020	60608	19	10.598	19.546	
				60465	30	19.802	8.918	60537	12	24.625	13.173	60609	27	11.369	19.818	
				60466	22	20.300	8.006	60538	32	3.591	14.595	60610	40	12.110	19.161	
				60467	25	24.476	8.622									

60622	13	8.971	20.400	<div>R.A. 20^h 32^m</div> <div>Plate 1094 ; 1917 Oct. 7.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—0.02577 —0.00051 —0.0338</div> <div>D E F</div> <div>+0.00047 —0.02581 —0.1036</div> <div>Mag.=15.7—1.05√<i>d</i></div>	60756*	77	13.056	6.382	60828	12	19.561	19.155	60906	10	0.396	1.158
60623	25	9.750	20.136		60757	18	18.806	6.396	60829	20	20.639	19.178	60907	31	0.578	1.466
60624	26	12.634	20.278		60758	38	25.372	6.018	60830	18	24.620	19.784	60908	16	5.589	1.912
60625	16	18.039	20.378		60759	15	1.174	7.866	60831	13	7.681	20.458	60909	17	8.644	1.164
60626	19	20.794	20.570		60760*	28	3.019	7.999	60832	13	8.750	20.087	60910	14	11.070	1.278
60627	13	21.278	20.722		60761*	42	7.029	7.580	60833	24	21.528	20.548	60911	19	11.958	1.198
60628	12	21.608	20.427		60762	25	10.752	7.396	60834	23	23.016	20.876	60912	27	14.728	1.653
60629	13	1.932	21.380		60763	15	13.798	7.142	60835*	26	1.310	21.222	60913*	48	15.256	1.531
60630	14	6.372	21.602		60764	16	14.270	7.282	60836	12	1.336	21.856	60914	17	16.896	1.616
60631	20	6.833	21.620		60765	14	2.319	8.586	60837	17	1.844	21.568	60915	26	18.198	1.937
60632	20	7.334	21.942		60766	29	3.020	8.001	60838	25	2.190	21.590	60916*	32	7.858	2.260
60633*	33	8.564	21.450		60767*	25	13.433	8.600	60839	12	10.308	21.688	60917	10	9.058	2.744
60634	28	8.606	21.342		60768	15	13.701	8.998	60840	14	11.414	21.195	60918	11	9.500	2.244
60635	23	13.090	21.739		60769	10	20.122	8.612	60841	25	16.974	21.952	60919	10	11.794	2.418
60636	28	13.582	21.445		60770	21	20.540	8.202	60842	25	18.478	21.988	60920	10	12.300	2.699
60637	12	14.399	21.944		60771	17	8.780	9.180	60843	10	25.254	21.954	60921	10	15.678	2.778
60638	14	15.302	21.272	60772	12	15.646	9.934	60844	13	4.366	22.178	60922	15	19.902	2.733	
60639	18	15.513	21.399	60773	38	21.817	9.534	60845	11	8.002	22.242	60923*	60	20.016	2.014	
60640	20	16.000	21.018	60774*	56	22.813	9.486	60846	18	8.210	22.131	60924	13	21.436	2.924	
60641	16	16.752	21.482	60775	13	0.864	10.556	60847	21	15.632	22.599	60925	12	21.895	2.726	
60642	13	20.094	21.266	60776	18	1.279	10.570	60848	22	19.594	22.026	60926	12	1.898	3.171	
60643*	35	23.426	21.263	60777	28	13.990	10.838	60849	12	8.728	23.322	60927	11	3.703	3.628	
60644	25	23.442	21.895	60778	16	23.090	10.344	60850	10	9.008	23.762	60928	10	5.468	3.417	
60645	26	23.956	21.608	60779	18	6.422	11.603	60851	14	12.656	23.344	60929	31	6.398	3.174	
60646	35	24.304	21.632	60780	15	9.446	11.138	60852*	32	20.544	23.143	60930	15	7.668	3.806	
60647*	56	1.960	22.255	60781	14	9.703	11.794	60853	45	25.236	23.748	60931	22	9.505	3.455	
60648*	39	5.658	22.813	60782	12	11.547	11.563	60854	17	6.357	24.086	60932	12	12.452	3.333	
60649	13	11.230	22.444	60783	24	12.592	11.464	60855	14	7.780	24.001	60933*	38	14.952	3.679	
60650	20	11.934	22.302	60784	10	16.125	11.385	60856	12	12.147	24.225	60934	14	15.204	3.289	
60651	33	18.083	22.549	60785	22	6.267	12.372	60857	42	14.704	24.182	60935	10	16.037	3.457	
60652	12	19.852	22.490	60786	21	11.386	12.774	60858	15	16.900	24.871	60936	19	20.277	3.492	
60653	12	20.806	22.150	60787	12	22.360	12.332	60859	13	17.126	24.420	60937	17	23.395	3.620	
60654	13	3.880	23.162	60788*	37	22.788	12.070	60860	25	17.414	24.980	60938	13	2.574	4.134	
60655	26	5.343	23.964	60789*	29	23.196	12.440	60861	24	5.039	25.850	60939	14	10.358	4.454	
60656	42	5.444	23.100	60790	29	25.284	12.888	60862	26	6.273	25.943	60940	12	11.066	4.590	
60657	41	5.855	23.705	60791	16	6.510	13.790	60863	18	8.856	25.266	60941	23	15.936	4.184	
60658	19	6.406	23.424	60792*	40	6.682	13.432	60864	41	12.876	25.736	60942	18	16.128	4.186	
60659	22	8.178	23.172	60793*	25	11.586	13.862	60865	53	13.947	25.941	60943	12	18.706	4.594	
60660	24	11.658	23.863	60794	21	16.508	13.047	60866	12	16.222	25.881	60944	31	19.786	4.190	
60661*	74	12.995	23.428	60795	8	17.453	13.009	60867	11	16.562	25.258	60945	26	20.896	4.656	
60662*	95	13.055	23.393	60796	11	18.590	13.743	60868	23	17.387	25.831	60946*	34	22.380	4.514	
60663	30	13.699	23.200	60797	11	19.048	13.654	60869	22	18.324	25.567	60947	13	23.289	4.836	
60664	18	14.386	23.778	60798	33	22.484	13.054	60870	54	21.214	25.904	60948	29	25.029	4.553	
60665	18	17.896	23.081	60799*	49	6.281	14.118					60949	16	25.222	4.660	
60666	16	17.947	23.676	60800*	33	11.824	14.064					60950	19	1.896	5.936	
60667	18	18.503	23.042	60801*	52	21.782	14.360					60951*	30	3.208	5.964	
60668	34	18.866	23.984	60802	10	22.532	14.442					60952	11	5.687	5.152	
60669	12	19.107	23.174	60803	14	3.722	15.656					60953	17	5.927	5.230	
60670	23	20.865	23.370	60804	24	4.034	15.892					60954*	26	6.238	5.259	
60671	13	5.533	24.754	60805	12	5.488	15.758					60955	19	6.353	5.150	
60672	13	9.890	24.839	60806	15	7.456	15.150					60956	13	13.755	5.318	
60673	33	13.514	24.394	60807	15	11.546	15.811					60957	13	15.964	5.439	
60674	17	14.593	24.382	60808*	26	15.432	15.055					60958	9	17.684	5.313	
60675	15	15.264	24.876	60809	12	18.164	15.715					60959	28	22.723	5.982	
60676	12	19.086	24.244	60810*	45	24.559	15.390					60960	11	8.092	6.239	
60677	23	19.125	24.134	60811*	40	7.680	16.200					60961	10	10.005	6.474	
60678	36	19.826	24.554	60812	21	13.131	16.466					60962	22	11.083	6.415	
60679	26	21.266	24.724	60813	8	15.789	16.486					60963	14	13.650	6.891	
60680	20	0.197	25.228	60814	9	16.212	16.630					60964	17	14.462	6.640	
60681	12	11.592	25.722	60815	15	16.478	16.170					60965	14	14.718	6.397	
60682	20	22.067	25.869	60816*	40	23.124	16.517					60966	15	14.896	6.729	
				60817	19	9.240	17.046					60967*	58	15.391	6.950	
				60818*	20	10.264	17.204					60968	19	3.920	7.308	
				60819*	23	14.760	17.279					60969	15	7.400	7.636	
				60820	14	19.732	17.398					60970	12	13.640	7.728	
				60821	21	9.092	18.486					60971	15	15.486	7.540	
				60822	10	9.124	18.402					60972	10	16.094	7.308	
				60823	13	12.322	18.408					60973*	24	16.913	7.652	
				60824*	80	19.172	18.335					60974	23	21.920	7.49	

60978	11	10.522	8.265	61050	12	23.520	17.912	<div>R.A. 20^h 48^m</div> <div>Plate 1098; 1917 Oct. 13.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-02564 +00429 -0138</div> <div>D E F</div> <div>-00460 -02593 +2093</div> <div>Mag.=15.6-1.05√d</div>	61206	16	8.725	8.781	61278	11	7.082	18.067
60979*	27	14.500	8.310	61051	16	0.288	18.814		61207	18	10.580	8.293	61279	12	13.097	18.387
60980	13	17.174	8.474	61052*	64	4.456	18.026		61208*	34	13.024	8.316	61280*	36	15.590	18.998
60981	25	22.494	8.666	61053	9	7.945	18.925		61209	18	17.558	8.722	61281	26	18.904	18.098
60982	16	25.346	8.866	61054	15	8.800	18.646		61210*	47	19.732	8.415	61282	16	22.363	18.608
60983	55	0.700	9.474	61055	12	15.020	18.840		61211	12	20.948	8.630	61283	43	0.690	19.788
60984	10	3.420	9.460	61056	18	17.501	18.767		61212	26	0.085	9.095	61284	9	4.286	19.799
60985	14	5.216	9.134	61057	23	22.100	18.052		61213	12	0.373	9.985	61285*	40	4.822	19.946
60986	13	17.896	9.479	61058	27	24.188	18.074		61214	10	2.941	9.264	61286	14	14.546	19.201
60987	13	19.174	9.708	61059	27	25.204	18.112		61215	10	11.560	9.718	61287	20	17.712	19.098
60988	14	19.696	9.708	61060	18	2.670	19.738	61216*	36	11.704	9.229	61288	16	21.500	19.650	
60989	10	22.188	9.550	61061	22	4.424	19.701	61217	20	21.834	9.680	61289	16	22.215	19.19	
60990	12	22.733	9.556	61062	20	6.200	19.668	61218	18	23.146	9.416	61290	16	5.468	20.527	
60991	10	23.340	9.300	61063*	28	6.789	19.401	61219	12	25.720	9.350	61291	13	8.260	20.518	
60992	14	0.996	10.323	61064	10	8.011	19.760	61220	17	6.938	10.146	61292	21	8.487	20.030	
60993	16	4.925	10.904	61065	20	8.336	19.630	61221	18	11.746	10.930	61293	28	9.776	20.148	
60994	15	11.763	10.378	61066	10	20.046	19.345	61222	24	13.174	10.570	61294	27	16.490	20.988	
60995	18	14.985	10.886	61067*	48	20.442	19.128	61223	21	14.100	10.206	61295	12	24.520	20.728	
60996	12	19.579	10.116	61068*	57	20.485	19.148	61224	18	15.236	10.622	61296	19	3.639	21.530	
60997	19	24.820	10.777	61069	9	21.751	19.878	61225	10	25.353	10.061	61297	17	8.780	21.182	
60998	11	12.206	11.045	61070*	47	22.987	19.366	61226	18	2.436	11.182	61298*	30	12.836	21.708	
60999	16	0.297	12.322	61071	11	0.577	20.456	61227	20	6.510	11.032	61299	13	17.885	21.972	
61000	35	0.718	12.054	61072	25	1.084	20.854	61228	25	6.567	11.360	61300	21	22.566	21.303	
61001*	28	1.133	12.418	61073	11	5.455	20.625	61229*	42	6.742	11.440	61301	20	2.602	22.276	
61002	23	3.229	12.834	61074*	28	13.688	20.288	61230	19	8.886	11.497	61302	24	17.332	23.362	
61003	10	4.848	12.650	61075	17	18.024	20.997	61231	17	15.973	11.380	61303	14	4.206	23.362	
61004	10	11.104	12.383	61076	10	0.328	21.844	61232	15	16.270	11.592	61304	13	6.574	23.771	
61005	10	13.482	12.165	61077	10	3.341	21.896	61233*	33	21.908	11.636	61305	26	7.962	23.700	
61006	13	19.420	12.423	61078	14	7.316	21.056	61234	21	25.948	11.573	61306	16	8.568	23.812	
61007	18	21.247	12.746	61079	17	9.024	21.412	61235	22	1.854	12.464	61307	15	11.530	23.491	
61008	9	23.822	12.339	61080	9	9.716	21.230	61236*	40	10.768	12.055	61308	21	11.805	23.870	
61009	23	24.226	12.054	61081	11	14.046	21.590	61237	10	11.502	12.356	61309	23	12.098	23.256	
61010	12	24.945	12.264	61082	17	19.054	21.156	61238	27	12.284	12.236	61310	21	15.822	23.230	
61011	12	25.360	12.920	61083	11	20.986	21.391	61239	14	14.286	12.311	61311	23	17.130	23.598	
61012	27	0.431	13.042	61084	13	23.326	21.340	61240	31	16.024	12.682	61312	32	5.354	24.162	
61013	10	0.793	13.236	61085	15	24.870	21.874	61241	13	20.567	12.508	61313	16	8.176	24.266	
61014*	26	7.895	13.440	61086	9	25.762	21.176	61242	10	0.105	13.691	61314	25	9.267	24.876	
61015	16	8.156	13.368	61087	15	25.914	21.137	61243	16	2.998	13.319	61315	34	10.214	24.556	
61016	13	9.891	13.161	61088	18	7.416	22.410	61244	11	7.545	13.954	61316	33	10.751	24.387	
61017	11	13.164	13.550	61089	14	8.340	22.666	61245	25	8.388	13.536	61317	30	17.281	24.930	
61018	13	22.464	13.262	61090	10	11.132	22.925	61246	12	12.480	13.690	61318*	49	18.472	24.058	
61019	14	0.500	14.430	61091*	44	3.347	23.694	61247	12	20.498	13.488	61319	17	19.866	24.327	
61020	16	4.801	14.242	61092	14	8.326	23.769	61248	17	21.130	13.740	61320	46	9.016	25.920	
61021	20	6.493	14.071	61093	11	11.926	23.744	61249	17	22.516	13.500	61321	23	10.276	25.600	
61022	24	8.941	14.117	61094	14	19.774	23.296	61250	32	1.852	14.460	61322	21	17.132	25.344	
61023	11	9.000	14.944	61095	13	24.662	23.153	61251	11	3.429	14.982	61323	14	17.802	25.055	
61024	10	19.591	14.650	61096	14	0.770	24.380	61252*	40	5.348	14.419	61324	38	23.786	25.520	
61025	11	21.192	14.230	61097*	29	7.009	24.086	61253	13	9.418	14.190	61325	24	25.340	25.201	
61026	25	24.201	14.051	61098	28	16.108	24.192	61254	11	10.556	14.346					
61027	10	24.217	14.424	61099	21	17.200	24.641	61255	12	19.541	14.284					
61028	12	25.772	14.590	61100	14	17.286	24.849	61256	15	21.205	14.268					
61029*	46	2.539	15.348	61101*	49	17.547	24.034	61257*	36	23.534	14.170					
61030	17	4.978	15.474	61102	13	18.052	24.346	61258	13	25.882	14.022					
61031	20	5.239	15.918	61103	12	19.470	24.636	61259	13	10.854	15.198					
61032	11	5.242	15.965	61104	10	2.917	25.878	61260	13	11.752	15.052					
61033	12	5.606	15.644	61105	10	5.477	25.405	61261	28	12.320	15.945					
61034	18	18.510	15.937	61106	12	8.563	25.234	61262	12	18.910	15.368					
61035	18	21.102	15.689	61107	14	11.272	25.778	61263	11	20.229	15.631					
61036*	34	1.123	16.496	61108	11	13.396	25.904	61264	14	22.870	15.526					
61037	12	3.687	16.703	61109	13	16.262	25.165	61265*	30	23.066	15.466					
61038	16	4.884	16.065	61110	17	22.152	25.291</									

61355	29	1.318	1.916	61427	10	24.076	8.32c	61499	15	10.576	16.494	61571	35	18.236	25.940	61640	8	14.824	3.841
61356*	46	3.377	1.822	61428*	164	25.012	8.066	61500	30	12.501	16.312	61572	37	19.086	25.767	61641	10	15.421	3.406
61357	12	6.460	1.784	61429	39	1.112	9.246	61501	38	13.104	16.334	61573	17	20.086	25.000	61642	27	16.604	3.626
61358	48	8.840	1.543	61430	9	4.222	9.421	61502*	47	15.344	16.640	61574	11	20.426	25.174	61643	10	17.046	3.565
61359	25	9.152	1.890	61431	40	6.244	9.425	61503	10	19.475	16.552	61575	45	20.928	25.354	61644	32	24.410	3.576
61360	34	9.918	1.328	61432	12	9.256	9.555	61504	10	21.285	16.806	61576	46	22.716	25.426	61645	21	2.026	4.313
61361	12	10.710	1.654	61433	30	9.634	9.856	61505	34	21.820	16.826	61577	14	23.478	25.735	61646	8	2.268	4.089
61362	41	11.270	1.575	61434	43	10.206	9.128	61506	17	23.410	16.934	61578	11	23.951	25.399	61647	10	3.099	4.842
61363	8	11.782	1.976	61435	10	10.666	9.900	61507	38	25.564	16.116	61579	40	25.165	25.085	61648	10	3.867	4.079
61364	32	17.219	1.064	61436*	44	19.284	9.726	61508	29	6.144	17.854					61649	8	6.310	4.150
61365	36	21.257	1.776	61437	10	23.378	9.596	61509	10	7.813	17.274					61650	25	8.667	4.144
61366	43	24.750	1.987	61438*	46	7.434	10.844	61510	15	9.083	17.376					61651	8	11.242	4.020
61367	39	1.034	2.114	61439	40	7.856	10.025	61511	42	15.924	17.255					61652	8	12.234	4.802
61368	10	1.410	2.893	61440	8	9.964	10.055	61512	16	22.273	17.682					61653	8	12.885	4.098
61369	11	3.734	2.862	61441	43	12.046	10.034	61513	12	23.864	17.350					61654*	62	15.035	4.834
61370	33	9.336	2.356	61442	29	13.441	10.090	61514	36	24.722	17.824					61655	26	15.238	4.233
61371	37	13.686	2.825	61443	41	15.394	10.415	61515	34	0.475	18.452					61656	8	15.614	4.952
61372	27	16.710	2.827	61444*	83	17.738	10.836	61516	15	2.590	18.466					61657	9	19.938	4.500
61373	39	18.788	2.680	61445	10	19.731	10.302	61517	9	2.836	18.330					61658	8	20.126	4.576
61374	39	19.072	2.892	61446	10	21.435	10.511	61518	10	4.371	18.356					61659	28	22.667	4.348
61375	8	20.856	2.792	61447	14	23.250	10.800	61519	37	4.594	18.601					61660	10	24.150	4.276
61376	22	3.034	3.114	61448	15	3.308	11.896	61520	8	5.423	18.318					61661	8	1.222	5.509
61377*	86	6.876	3.973	61449	10	3.732	11.684	61521*	44	13.716	18.882					61662*	46	1.618	5.694
61378	12	7.126	3.262	61450	36	3.952	11.361	61522	14	13.850	18.885					61663	13	6.948	5.638
61379*	48	12.636	3.669	61451	8	9.772	11.858	61523	43	19.115	18.350					61664	10	9.642	5.058
61380	9	13.654	3.957	61452	12	10.242	11.683	61524*	45	19.444	18.674					61665	27	9.676	5.145
61381	41	15.295	3.111	61453*	93	10.848	11.576	61525*	85	19.665	18.362					61666	29	12.478	5.330
61382	8	15.528	3.412	61454	13	14.876	11.700	61526	10	24.545	18.934					61667	13	15.234	5.339
61383	14	20.589	3.079	61455	14	15.052	11.340	61527	37	0.336	19.038					61668	18	18.437	5.800
61384	35	24.308	3.734	61456	26	15.672	11.490	61528	15	2.183	19.451					61669	20	18.771	5.892
61385	8	2.114	4.528	61457	10	16.526	11.810	61529	10	4.298	19.600					61670	8	21.205	5.921
61386	8	5.801	4.866	61458*	45	20.608	11.584	61530	14	11.093	19.102					61671*	41	21.211	5.486
61387	10	11.954	4.294	61459	32	22.088	11.220	61531	21	14.904	19.110					61672	8	22.486	5.400
61388	12	14.264	4.916	61460	44	23.444	11.163	61532*	44	17.000	19.636					61673	10	22.568	5.833
61389	19	15.955	4.442	61461	12	0.540	12.554	61533*	45	19.955	19.902					61674	35	22.864	5.678
61390	15	17.833	4.259	61462*	44	8.576	12.688	61534	40	20.488	19.966					61675	32	23.932	5.458
61391	8	20.398	4.348	61463	8	12.545	12.564	61535	33	25.128	19.583					61676	8	2.323	6.160
61392	10	22.334	4.326	61464	36	12.823	12.176	61536	38	25.744	19.239					61677	8	7.984	6.650
61393	36	24.424	4.339	61465*	49	15.328	12.399	61537	11	2.668	20.536					61678	22	9.982	6.280
61394	13	0.662	5.560	61466	18	15.888	12.003	61538	9	3.752	20.069					61679	8	11.821	6.701
61395	14	2.870	5.475	61467	33	19.402	12.906	61539	26	5.131	20.005					61680	8	13.738	6.944
61396*	50	3.804	5.600	61468	19	21.244	12.593	61540	27	25.440	20.790					61681	9	16.448	6.072
61397	10	9.564	5.456	61469	21	21.667	12.588	61541	37	0.722	21.139					61682	11	19.995	6.756
61398	11	17.382	5.202	61470	34	0.548	13.340	61542	10	2.096	21.894					61683	30	23.434	6.682
61399*	48	24.014	5.715	61471*	44	1.576	13.996	61543	42	8.118	21.836					61684	21	0.040	7.788
61400	16	5.086	6.802	61472	11	2.817	13.825	61544	43	8.193	21.221					61685	23	0.475	7.304
61401	11	5.176	6.799	61473	27	3.924	13.810	61545	13	15.571	21.868					61686	8	1.325	7.974
61402	26	5.599	6.331	61474	18	7.206	13.052	61546	44	16.762	21.820					61687	17	1.542	7.050
61403	44	10.044	6.327	61475*	46	10.100	13.086	61547	11	19.460	21.068					61688	11	2.151	7.546
61404	42	12.139	6.810	61476	38	10.934	13.757	61548	8	24.456	21.214					61689	10	2.514	7.212
61405	17	16.200	6.654	61477	8	16.134	13.297	61549	23	13.456	22.480					61690	13	2.754	7.439
61406	26	12.248	7.174	61478	43	18.294	13.550	61550	43	19.220	22.568					61691	12	5.064	7.588
61407	20	18.928	7.023	61479	26	21.480	13.693	61551	43	19.341	22.464					61692	13	5.076	7.990
61408*	48	19.085	7.430	61480	15	1.844	14.878	61552	13	25.493	22.220					61693	30	6.732	7.634
61409	12	20.082	7.985	61481	30	5.164	14.392	61553	8	5.474	23.881					61694	9	11.515	7.048
61410	34	21.651	7.676	61482	35	7.442	14.922	61554	9	7.240	23.186					61695	8	13.240	7.672
61411*	82	21.984	7.262	61483	27	8.342	14.568	61555	13	7.914	23.870					61696	8	13.314	7.167
61412	36	22.415	7.800	61484	12	9.406	14.894	61556	30	9.259	23.624					61697	8	13.700	7.244
61413	39	22.856	7.318	61485	9	15.706	14.454	61557	34	11.297	23.224					61698*	39	22.160	7.443
61414	31	23.925	7.074	61486	31	18.278	14.936	61558	9	15.826	23.126					61699	13	23.466	7.849
61415	12	24.528	7.570	61487	32	0.936	15.362	61559*	48	20.203	23.181					61700	8	1.704	8.296
61416	8	24.894	7.242	61488*	43	1.128	15.298	61560	33	20.476	23.895					61701*	160	2.629	8.038
61417	15	25.134	7.470	61489	10	5.034	15.516	61561	41	3.559	24.996					61702	8	3.634	8.798
61418	10	2.500	8.886	61490*	44	5.886	15.470	61562	32	12.585	24.284					61703	20	4.368	8.574
61419	40	7.638	8.518	61491	44	8.082	15.194	61563	15	16.142	24.363					61704	12	5.284	8.968
61420*	52	8.395	8.758	61492	40	8.794	15.822	61564	11	16.754	24.594					61705	9	6.732	8.904
61421	36	9.414	8.956	61493	40	10.878	15.921	61565	27	17.496	24.340					61706	8	7.428	8.560
61422	13	10.287	8.736	61494	13	11.365	15.410	61566	39	20.035	24.764					61707	11	8.018	8.970
61423	8	11.576	8.794	61495	42	13.816	15.130	61567	46	2.008	25.338					61708*	43	10.378	8.628
61424	12	14.645	8.260	61496															

61712	8	15.711	8.665	61784	11	8.448	13.506	61856	27	7.450	18.072	61928	8	12.087	23.115	62006	29	13.564	0.378
61713	8	21.050	8.678	61785	8	9.929	13.767	61857	14	10.820	18.292	61929	12	12.118	23.966	62007	12	0.963	1.505
61714	42	25.581	8.552	61786	13	12.630	13.182	61858	8	15.635	18.667	61930	28	13.480	23.522	62008	13	7.578	1.372
61715	10	1.012	9.578	61787	23	13.036	13.462	61859	8	16.766	18.302	61931	42	13.562	23.572	62009	17	9.369	1.205
61716	11	3.984	9.618	61788	18	13.319	13.897	61860	8	21.224	18.274	61932	8	15.321	23.498	62010	16	16.962	1.720
61717	8	5.306	9.234	61789	8	15.643	13.705	61861	8	22.904	18.938	61933	33	18.859	23.041	62011	25	17.876	1.048
61718	8	7.172	9.681	61790	10	15.802	13.924	61862	27	23.906	18.148	61934	19	20.176	23.282	62012	16	1.365	2.713
61719	11	10.723	9.844	61791	14	17.933	13.788	61863	8	0.100	19.773	61935	17	21.920	23.434	62013	25	2.806	2.094
61720	12	12.816	9.810	61792	9	4.524	14.312	61864	16	2.831	19.552	61936	8	1.868	24.578	62014	14	7.243	2.061
61721	10	15.550	9.276	61793	8	5.896	14.113	61865	22	3.442	19.204	61937	22	4.705	24.843	62015	32	15.084	2.715
61722	19	18.194	9.101	61794	8	6.051	14.228	61866	18	4.936	19.768	61938	19	5.919	24.956	62016	15	23.534	2.535
61723	8	18.329	9.669	61795	20	6.872	14.844	61867	10	5.841	19.754	61939	10	8.047	24.495	62017	32	1.936	3.884
61724	8	21.302	9.058	61796	14	7.536	14.492	61868*	28	7.518	19.578	61940	9	9.476	24.614	62018*	70	18.428	3.056
61725	27	21.858	9.415	61797	22	8.284	14.024	61869	30	9.568	19.330	61941	16	9.647	24.556	62019	11	23.551	3.621
61726	17	22.573	9.616	61798	13	12.738	14.135	61870	10	14.232	19.020	61942	8	10.490	24.262	62020	134	25.792	3.760
61727	18	23.693	9.443	61799	9	13.750	14.032	61871	41	16.108	19.795	61943	13	10.808	24.660	62021	20	0.200	4.674
61728	11	23.748	9.260	61800	15	13.977	14.066	61872	8	16.650	19.792	61944*	41	11.018	24.317	62022	20	12.972	4.283
61729	10	24.147	9.257	61801	19	16.154	14.648	61873	16	19.000	19.475	61945	19	16.460	24.685	62023	20	19.561	4.420
61730	11	25.952	9.175	61802	8	17.524	14.270	61874*	37	19.681	19.438	61946	11	17.304	24.121	62024	16	21.552	4.226
61731	13	0.894	10.781	61803	8	21.864	14.228	61875	13	22.472	19.372	61947	8	17.366	24.818	62025	10	25.097	4.670
61732	10	3.763	10.326	61804	9	23.734	14.663	61876	18	3.150	20.757	61948	12	22.362	24.818	62026	30	1.478	5.771
61733	33	5.267	10.080	61805	20	6.296	15.600	61877	19	6.289	20.656	61949	21	25.764	24.675	62027	21	10.594	5.414
61734	10	6.485	10.182	61806	8	7.966	15.292	61878	14	6.724	20.681	61950	33	0.462	25.410	62028	23	10.982	5.271
61735*	108	7.674	10.644	61807	8	8.394	15.952	61879	15	10.370	20.190	61951	10	0.812	25.468	62029	15	12.535	5.570
61736	15	11.222	10.022	61808	9	8.619	15.926	61880	12	14.656	20.768	61952	11	1.228	25.715	62030	25	15.861	5.352
61737	25	11.909	10.056	61809	11	12.622	15.606	61881*	52	15.460	20.896	61953	11	1.698	25.377	62031*	33	20.376	5.791
61738	9	15.375	10.946	61810	30	15.028	15.458	61882	13	15.900	20.640	61954	26	2.910	25.057	62032	24	20.726	5.472
61739	12	15.949	10.866	61811	10	15.220	15.214	61883	32	15.935	20.135	61955	12	4.238	25.592	62033	20	22.839	5.350
61740*	52	16.020	10.884	61812	8	16.153	15.498	61884	8	22.046	20.478	61956	10	5.226	25.252	62034	31	0.414	6.004
61741	20	23.452	10.378	61813	11	17.500	15.384	61885	13	22.412	20.965	61957	8	5.492	25.712	62035	19	0.990	6.998
61742	11	23.484	10.020	61814	8	21.363	15.704	61886	8	24.937	20.936	61958	19	5.592	25.807	62036	14	3.900	6.966
61743	13	25.764	10.910	61815	25	22.862	15.148	61887	8	25.195	20.234	61959	9	5.787	25.486	62037	20	4.215	6.978
61744	28	1.090	11.143	61816	20	23.146	15.043	61888	8	25.677	20.843	61960	53	5.944	25.236	62038	26	7.268	6.894
61745	10	2.427	11.796	61817	18	1.096	16.917	61889	9	25.931	20.054	61961	11	6.203	25.643	62039	13	11.884	6.866
61746	14	5.745	11.272	61818	25	3.242	16.086	61890	11	2.167	21.187	61962	53	10.720	25.530	62040	38	16.552	6.974
61747	26	5.956	11.175	61819	8	3.653	16.225	61891	10	3.678	21.378	61963	19	11.513	25.720	62041	19	16.760	6.518
61748	8	6.066	11.346	61820	8	4.480	16.139	61892	16	3.939	21.354	61964	20	13.540	25.126	62042	30	21.418	6.638
61749	25	7.694	11.280	61821	8	6.163	16.500	61893	8	4.190	21.419	61965	10	16.507	25.009	62043	20	22.749	6.472
61750	15	8.156	11.584	61822*	44	7.252	16.761	61894	14	6.922	21.593	61966	8	16.557	25.180	62044	28	25.404	6.134
61751	15	16.268	11.494	61823	8	8.256	16.771	61895	10	7.384	21.172	61967	10	17.660	25.258	62045	11	4.900	7.818
61752	16	16.282	11.996	61824	8	8.582	16.591	61896	32	8.654	21.407	61968	20	18.440	25.374	62046	29	12.387	7.738
61753	32	18.837	11.798	61825	8	9.384	16.839	61897	21	10.248	21.544	61969	11	19.403	25.970	62047	13	13.824	7.590
61754	8	19.026	11.644	61826	8	10.722	16.534	61898	10	11.068	21.958	61970	9	19.940	25.728	62048	26	14.419	7.928
61755	19	19.296	11.412	61827	15	14.150	16.178	61899*	41	12.607	21.936					62049	11	20.164	7.728
61756	8	20.310	11.962	61828	33	14.874	16.944	61900	33	13.140	21.727					62050	11	20.194	7.184
61757	10	21.565	11.561	61829	13	15.130	16.901	61901	8	15.399	21.850					62051	14	22.933	7.450
61758	16	22.022	11.389	61830	17	15.232	16.952	61902	26	17.086	21.644					62052	10	1.040	8.168
61759	26	22.571	11.017	61831	10	19.775	16.696	61903	31	19.095	21.294					62053*	45	3.161	8.845
61760	10	23.072	11.387	61832	8	24.319	16.215	61904	15	20.822	21.782					62054*	41	4.859	8.220
61761*	44	24.546	11.982	61833	32	25.725	16.798	61905	37	21.236	21.674					62055	19	7.142	8.730
61762	8	4.568	12.558	61834	9	1.553	17.325	61906	8	21.364	21.728					62056	14	8.852	8.566
61763	9	4.904	12.800	61835	18	2.409	17.796	61907*	37	21.512	21.858					62057*	30	11.000	8.562
61764	8	9.193	12.237	61836	8	3.484	17.438	61908	11	22.101	21.650					62058	16	18.269	8.943
61765	13	10.512	12.982	61837	9	3.848	17.080	61909	13	23.570	21.483					62059	21	18.411	8.959
61766	15	10.716	12.400	61838	18	7.461	17.739	61910	8	24.802	21.595					62060	16	0.168	9.946
61767	27	11.014	12.377	61839	9	7.875	17.218	61911	11	25.673	21.698					62061	14	1.283	9.758
61768	8	11.963	12.722	61840	26	10.612	17.396	61912	9	25.822	21.278					62062*	95	5.834	9.694
61769	12	12.116	12.668	61841	9	11.366	17.929	61913	8	1.752	22.958					62063	26	9.264	9.474
61770	10	13.702	12.740	61842	8	11.612	17.186	61914	17	3.216	22.188					62064	19	15.903	9.429
61771	25	15.672	12.833	61843	32	14.974	17.261	61915	10	9.012	22.666					62065	21	17.565	9.468
61772	8	16.912	12.802	61844	8	16.138	17.770	61916	26	12.405	22.830					62066	14	17.742	9.862
61773	16	16.986	12.156	61845	22	16.486	17.644	61917	8	13.234	22.106					62067	12	18.797	9.818
61774	19	17.740	12.558	61846	10	17.476	17.472	61918*	44	14.986	22.390					62068	20	1.052	10.694
61775	10	17.844	12.280	61847*	37	18.108	17.468	61919	8	17.566	22.307					62069	10	1.083	10.336
61776	8	20.310	12.914	61848	8	19.198	17.294	61920	30	18.944	22.704					62070	13	6.266	10.165
6																			

62078	18	0.180	11.344	62150	13	14.720	21.853	62234*	135	3.286	3.717	62306	34	2.658	10.938	62378*	40	16.468	17.950
62079	13	3.372	11.200	62151	13	17.914	21.436	62235	12	7.046	3.366	62307	30	6.538	10.796	62379	17	19.668	17.261
62080*	98	14.622	11.064	62152	10	20.230	21.468	62236	39	12.672	3.230	62308	11	8.173	10.091	62380	25	21.095	17.330
62081*	42	15.460	11.890	62153	36	24.631	21.984	62237	22	14.591	3.549	62309	23	11.470	10.581	62381	30	23.251	17.100
62082	18	15.926	11.438	62154	10	25.114	21.357	62238	43	15.351	3.766	62310	31	13.248	10.080	62382	44	0.856	18.792
62083	17	18.703	11.896	62155	12	2.518	22.538	62239	29	15.538	3.652	62311	27	14.738	10.579	62383	13	5.700	18.989
62084	11	19.647	11.582	62156	18	7.856	22.575	62240	23	16.654	3.516	62312	31	15.326	10.792	62384	28	6.884	18.558
62085*	57	2.164	12.288	62157	11	11.005	22.762	62241	28	21.362	3.839	62313	32	15.484	10.094	62385	22	10.426	18.858
62086*	60	2.691	12.816	62158	30	15.900	22.955	62242	21	22.270	3.300	62314	33	16.264	10.818	62386	14	11.148	18.232
62087*	40	5.476	12.379	62159	13	9.602	23.390	62243	26	1.984	4.596	62315	27	24.455	10.449	62387	18	12.866	18.184
62088	12	6.446	12.046	62160	14	13.618	23.556	62244	28	4.812	4.022	62316	23	1.382	11.100	62388	30	21.258	18.111
62089	12	8.772	12.857	62161	12	19.820	23.280	62245	33	6.220	4.268	62317	13	2.520	11.026	62389	23	23.516	18.151
62090	10	12.368	12.896	62162	20	3.532	24.966	62246	28	9.430	4.854	62318	44	4.257	11.637	62390	31	23.568	18.694
62091	19	20.509	12.127	62163	12	11.500	24.024	62247	38	9.990	4.167	62319	25	5.698	11.034	62391	21	1.100	19.486
62092	12	11.340	13.311	62164	26	20.810	24.327	62248	21	13.792	4.609	62320	15	6.170	11.328	62392	22	4.248	19.246
62093	11	16.382	13.127	62165	62	14.426	25.396	62249	34	18.482	4.384	62321	38	8.072	11.789	62393	22	7.364	19.228
62094	38	18.801	13.099	62166	76	24.250	25.993	62250	46	18.782	4.262	62322	14	11.187	11.308	62394	31	8.784	19.837
62095	11	6.680	14.736					62251	37	19.169	4.266	62323	29	19.400	11.969	62395	22	9.160	19.384
62096	11	11.406	14.540					62252	26	19.280	4.298	62324	31	22.682	11.348	62396	38	12.408	19.584
62097	12	17.230	14.779					62253	13	19.505	4.808	62325	19	1.176	12.086	62397	19	12.720	19.629
62098	21	17.900	14.380					62254	15	23.547	4.426	62326	27	2.459	12.736	62398	27	13.066	19.520
62099	16	19.770	14.251					62255	31	0.355	5.343	62327	13	3.799	12.742	62399*	45	14.563	19.088
62100*	30	20.142	14.932					62256	12	4.114	5.548	62328	44	4.270	12.434	62400	19	17.355	19.011
62101	16	21.413	14.166					62257	18	4.740	5.393	62329	18	4.790	12.328	62401	38	23.418	19.712
62102	20	25.197	14.695					62258	21	10.086	5.065	62330	12	7.669	12.420	62402	32	23.698	19.568
62103	15	0.800	15.363					62259	26	11.355	5.864	62331	19	17.719	12.939	62403	12	3.384	20.421
62104	14	16.016	15.981					62260	33	13.744	5.602	62332	11	0.121	13.694	62404	12	6.120	20.634
62105	18	16.170	15.288					62261	42	20.164	5.320	62333	12	3.486	13.276	62405*	54	6.638	20.702
62106*	62	4.218	16.259					62262	18	21.720	5.194	62334	31	7.147	13.260	62406	36	9.166	20.697
62107	11	7.030	16.404					62263	14	23.500	5.863	62335	19	9.442	13.964	62407	39	12.762	20.236
62108	10	15.296	16.574					62264	43	23.762	5.696	62336	30	17.154	13.942	62408	45	2.320	21.951
62109	10	16.500	16.615					62265	33	24.324	5.488	62337	27	22.154	13.651	62409	14	10.479	21.192
62110	18	17.288	16.322					62266	11	24.714	5.654	62338	19	23.674	13.210	62410	27	12.086	21.062
62111*	35	23.906	16.330					62267	33	0.276	6.461	62339	16	24.006	13.444	62411	29	13.799	21.697
62112	33	25.798	16.900					62268	16	0.576	6.582	62340	23	25.894	13.684	62412*	45	16.558	21.926
62113	22	2.561	17.544					62269	18	2.264	6.404	62341	11	1.198	14.178	62413	40	17.874	21.654
62114	25	3.398	17.090					62270	39	2.925	6.097	62342	35	2.806	14.660	62414	38	18.782	21.634
62115	12	8.432	17.390					62271	22	6.603	6.200	62343	37	4.790	14.938	62415*	48	24.440	21.471
62116	29	8.856	17.500					62272	49	6.635	6.765	62344	22	8.588	14.405	62416	21	1.444	22.140
62117*	142	13.770	17.183					62273	37	8.534	6.770	62345	45	17.798	14.416	62417	15	1.468	22.155
62118	12	16.134	17.284					62274	36	9.384	6.006	62346	10	18.121	14.268	62418	32	5.077	22.274
62119	23	16.778	17.706					62275	26	9.879	6.817	62347	34	18.867	14.420	62419	15	8.036	22.440
62120	22	18.674	17.358					62276	39	11.248	6.215	62348	14	20.526	14.535	62420	16	21.100	22.764
62121	14	21.669	17.315					62277	21	16.366	6.312	62349	25	21.102	14.996	62421	21	24.152	22.292
62122	15	1.597	18.456					62278	33	18.240	6.248	62350	21	22.182	14.674	62422	34	9.383	23.772
62123	35	3.783	18.940					62279	36	19.646	6.157	62351	22	22.878	14.036	62423	14	10.209	23.449
62124*	42	5.960	18.575					62280	37	7.542	7.003	62352	22	2.496	15.098	62424	24	11.040	23.632
62125	21	6.356	18.008					62281	18	7.938	7.498	62353	13	3.554	15.370	62425	33	14.050	23.725
62126	11	9.930	18.848					62282	19	14.582	7.644	62354	41	6.198	15.817	62426	20	16.956	23.850
62127*	40	12.514	18.269					62283	15	14.619	7.393	62355	10	12.700	15.160	62427	20	20.684	23.630
62128	38	12.669	18.470					62284	21	16.917	7.062	62356	17	12.766	15.526	62428	11	3.621	24.413
62129	12	14.094	18.760					62285	30	18.168	7.784	62357	30	13.882	15.082	62429	39	8.747	24.824
62130	14	15.174	18.873					62286	26	19.686	7.272	62358*	23	15.312	15.922	62430	33	10.181	24.299
62131	11	19.124	18.532					62287	16	0.788	8.360	62359	21	15.531	15.164	62431	17	10.228	24.283
62132	28	23.204	18.806					62288	17	1.827	8.767	62360	19	21.368	15.640	62432	32	10.382	24.712
62133	13	6.957	19.350					62289	27	3.152	8.417	62361*	43	1.536	16.307	62433	14	11.168	24.342
62134*	43	13.167	19.373					62290	19	3.912	8.572	62362	40	3.430	16.858	62434*	54	12.996	24.208
62135	13	13.785	19.553					62291*	59	15.899	8.794	62363	18	5.412	16.007	62435	34	13.744	24.972
62136	14	15.778	19.426					62292	16	17.803	8.942	62364	30	8.540	16.800	62436	12	15.812	24.930
62137	11	19.838	19.250					62293*	60	20.398	8.670	62365	37	9.668	16.592	62437	28	21.076	24.464
62138	10	23.440	19.504					62294	33	24.596	8.843	62366	25	11.108	16.922	62438	20	21.970	24.180
62139	10	5.200	20.840					62295	34	25.266	8.873	62367	14	13.412	16.156	62439	36	25.510	24.556
62140	25	6.046	20.000					62296	10	1.034	9.514	62368*	40	14.322	16.380	62440	78	1.976	25.966
62141	14	6.269	20.493					62297	11	4.082	9.388	62369	17	14.816	16.681	62441	18	4.716	25.470
62142	10	11.154	20.356					62298	20	10.060	9.188	62370	28	18.524	16.403	62442	27	6.166	25.170
62143	34	16.144	20.026					62299	35	18.702	9.250	62371	17	19.790	16.266	62443	12	10.821	25.640
62144	12	17.239	20.591					62300	26	19.534	9.452	62372	15	2.954	17.635	62444	13	14.071	25.699
62145	11	19.248	20.062					62301	29	21.284	9.7								

R.A. 21 ^h 28 ^m				R.A. 21 ^h 36 ^m			
Plate 1127; 1917 Nov. 7.				Plate 1108; 1917 Oct. 15.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
−.02556	+00049	−.0148		−.02542	+00943	−.1332	
D	E	F		D	E	F	
−.00022	−.02568	+0214		−.00938	−.02542	+0507	
Mag.=16.2−1.05√ <i>d</i>				Mag.=16.7−1.05√ <i>d</i>			
No.	<i>d</i>	<i>x</i>	<i>y</i>	No.	<i>d</i>	<i>x</i>	<i>y</i>
62451	17	2.964	0.918	62651	21	0.704	0.160
62452	16	6.511	0.673	62652	20	3.106	0.207
62453*	42	15.868	0.615	62653	12	4.062	0.862
62454	19	23.206	0.123	62654	38	6.881	0.936
62455	23	25.606	0.216	62655	11	7.600	0.390
62456	22	1.570	1.827	62656	26	8.491	0.289
62457	23	12.326	1.668	62657	15	11.404	0.550
62458	14	17.586	1.936	62658	26	12.379	0.084
62459	32	22.742	1.218	62659	16	12.548	0.352
62460	30	2.154	2.100	62660	15	16.284	0.215
62461	21	2.574	2.513	62661	18	20.967	0.886
62462*	38	3.096	2.745	62662*	62	21.512	0.668
62463	20	9.012	2.333	62663	15	22.048	0.335
62464	17	12.040	2.642	62664	11	23.200	0.915
62465	22	16.170	2.358	62665	13	23.432	0.142
62466*	40	18.877	2.181	62666	26	0.259	1.265
62467	14	20.432	2.492	62667	20	6.300	1.524
62468*	56	20.816	2.846	62668	28	6.470	1.358
62469	25	7.890	3.100	62669	31	7.543	1.170
62470	24	13.670	3.902	62670	10	14.462	1.283
62471*	38	15.246	3.223	62671	13	14.844	1.820
62472*	35	15.855	3.146	62672*	37	15.542	1.046
62473*	41	16.214	3.053	62673	29	17.045	1.951
62474	22	17.466	3.784	62674	11	17.550	1.400
62475	17	22.951	3.085	62675	14	19.392	1.489
62476	16	1.310	4.896	62676	38	23.517	1.456
62477	15	5.439	4.393	62677	16	3.670	2.036
62478	32	6.372	4.755	62678	10	4.564	2.254
62479	29	8.566	4.645	62679	19	5.078	2.764
62480	27	9.378	4.178	62680	23	5.520	2.842
62481	14	11.626	4.703	62681	19	6.792	2.191
62482	22	12.511	4.954	62682*	160	8.524	2.279
62483	26	2.087	5.952	62683	10	8.816	2.463
62484	37	4.216	5.038	62684	14	9.253	2.744
62485	17	6.420	5.760	62685	22	9.909	2.589
62486	19	14.616	5.318	62686	12	15.115	2.115
62487	20	14.979	5.922	62687	12	19.476	2.186
62488	17	19.095	5.743	62688	11	20.105	2.266
62489	14	22.449	5.273	62689	14	0.504	3.132
62490	17	22.714	5.338	62690	14	3.754	3.043
62491	36	23.242	5.258	62691*	43	10.024	3.516
62492	32	24.115	5.086	62692	10	14.846	3.768
62493	28	24.850	5.721	62693	42	15.788	3.685
62494	36	1.524	6.161	62694	14	15.995	3.658
62495	22	5.438	6.836	62695	21	22.320	3.272
62496	16	7.382	6.560	62696	14	25.193	3.112
62497	18	8.364	6.856	62697*	50	4.300	4.666
62498	26	4.132	7.730	62698	13	4.980	4.389
62499	16	7.876	7.128	62699	13	7.097	4.021
62500	26	14.695	7.550	62700	20	7.553	4.594
62501	21	20.122	7.284	62701	24	10.463	4.676
62502*	48	21.322	7.408	62702	15	13.285	4.685
62503*	38	4.056	8.006	62703	19	14.458	4.781
62504	13	6.148	8.702	62704*	39	14.750	4.696
62505	36	10.688	8.634	62705	27	16.066	4.072
62506	16	11.767	8.449	62578	24	1.073	17.566
62507	22	18.108	8.342	62579	23	6.910	17.012
62508	40	19.100	8.439	62580	25	8.155	17.012
62509	14	19.984	8.651	62581	18	12.895	17.136
62510	60	24.930	8.727	62582	38	13.356	17.458
62511	22	25.494	8.036	62583	20	14.500	17.226
62512	32	2.376	9.302	62584	36	20.978	17.479
62513	28	3.046	9.330	62585	22	21.020	17.618
62514*	58	6.244	9.179	62586	22	1.341	18.620
62515	19	8.146	9.942	62587	36	3.898	18.702
62516	27	8.550	9.793	62588	15	6.924	18.156
62517	17	11.855	9.746	62589	20	7.248	18.014
62518*	36	14.264	9.208	62590	19	10.624	18.286
62519	18	15.352	9.888	62591	19	13.192	18.406
62520	14	21.836	9.372	62592	25	15.724	18.130
62521	13	24.154	9.119	62593	24	19.598	18.064
62522	27	0.350	10.145	62594	26	1.397	19.160
62523	34	0.758	10.036	62595	26	4.664	19.351
62524	22	2.244	10.910	62596	30	5.901	19.111
62525	26	0.472	11.816	62597*	36	6.110	19.367
62526	16	1.145	11.565	62598	32	18.439	19.196
62527	12	9.795	11.262	62599*	37	20.764	19.841
62528	16	12.705	11.632	62600	33	25.465	19.755
62529	26	21.940	11.060	62601	32	1.250	20.180
62530	40	21.975	11.716	62602	24	1.528	20.034
62531	24	6.366	12.700	62603	28	4.640	20.174
62532	21	6.792	12.633	62604*	36	8.630	20.666
62533	17	9.316	12.523	62605	23	9.275	20.572
62534	36	10.974	12.764	62606	14	10.695	20.802
62535	36	14.026	12.964	62607	16	11.436	20.956
62536	21	16.625	12.780	62608	20	14.248	20.226
62537	17	17.651	12.954	62609	16	18.048	20.106
62538	16	19.446	12.811	62610	27	19.575	20.504
62539	26	21.200	12.170	62611	28	25.614	20.759
62540	37	21.580	12.056	62612*	46	2.280	21.934
62541	22	22.728	12.148	62613	21	13.829	21.128
62542	31	24.798	12.402	62614	31	22.208	21.656
62543	20	1.808	13.910	62615	39	24.968	21.918
62544	15	4.054	13.326	62616	36	4.915	22.090
62545	17	4.840	13.118	62617	16	8.846	22.950
62546	39	5.606	13.948	62618	15	9.524	22.286
62547	21	10.251	13.684	62619	28	12.006	22.760
62548	21	10.410	13.391	62620	34	14.600	22.962
62549	16	23.599	13.172	62621	30	14.869	22.519
62550	23	24.174	13.772	62622	16	17.656	22.514
62551	37	25.932	13.926	62623*	59	20.430	22.522
62552	16	0.682	14.505	62624	17	24.169	22.186
62553	22	3.700	14.138	62625	17	9.410	23.244
62554	25	7.010	14.903	62626	21	12.210	23.372
62555	21	8.645	14.389	62627	24	14.400	23.988
62556	26	13.474	14.700	62628	19	18.130	23.210
62557	16	16.620	14.018	62629*	78	23.130	23.100
62558	15	17.322	14.547	62630	20	24.689	23.216
62559	12	18.790	14.562	62631	18	4.5.	

62778	27	11.470	11.564	62850*	51	7.126	19.235	<div>R.A. 21^h 44^m</div> <div>Plate 795; 1916 Nov. 16.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>−0.2545 +0.00315 +0.0860</div> <div>D E F</div> <div>−0.00300 −0.2550 −0.3386</div> <div>Mag.=16.4−1.05√<i>d</i></div>	63006	36	1.896	5.385	63078	35	25.197	10.406
62779	12	14.304	11.326	62851	10	8.655	19.836		63007	20	5.871	5.556	63079	24	25.600	10.216
62780	11	20.750	11.941	62852	35	9.028	19.007		63008	22	8.184	5.649	63080	28	5.606	11.256
62781	19	0.458	12.194	62853	10	10.116	19.469		63009	22	10.815	5.042	63081	23	10.376	11.230
62782	26	2.535	12.408	62854	13	10.126	19.588		63010	29	11.515	5.562	63082	22	14.173	11.646
62783*	34	11.708	12.660	62855	12	13.612	19.400		63011	9	19.682	5.163	63083	10	16.978	11.946
62784	26	14.433	12.878	62856	13	17.752	19.728		63012	11	21.626	5.626	63084	16	17.020	11.997
62785	19	19.546	12.086	62857	14	19.047	19.265		63013	24	2.456	6.476	63085	14	17.490	11.620
62786	14	20.155	12.504	62858	11	20.884	19.410		63014	28	3.066	6.924	63086	22	19.958	11.732
62787	22	24.760	12.966	62859	21	24.934	19.984		63015	12	4.546	6.495	63087	34	20.148	11.470
62788	25	25.291	12.952	62860	23	25.878	19.722	63016	12	5.168	6.066	63088	33	22.236	11.206	
62789	10	0.095	13.974	62861	12	1.706	20.631	63017	12	7.744	6.024	63089	10	2.500	12.616	
62790	14	1.350	13.199	62862	20	3.515	20.746	63018	27	8.185	6.202	63090	30	2.642	12.794	
62791	17	1.936	13.789	62863	23	9.328	20.953	63019	33	8.640	6.331	63091	34	3.173	12.778	
62792	35	3.694	13.912	62864	14	11.010	20.754	63020	30	10.560	6.542	63092	14	6.460	12.476	
62793	15	5.073	13.243	62865*	36	19.552	20.036	63021	8	12.196	6.494	63093	8	7.788	12.818	
62794	12	7.360	13.736	62866	13	20.365	20.590	63022	10	14.674	6.530	63094	8	8.406	12.698	
62795	26	7.440	13.710	62867	23	20.903	20.008	63023	22	15.122	6.026	63095	12	8.526	12.944	
62796	13	9.106	13.045	62868	19	22.248	20.476	63024	11	15.712	6.093	63096	12	8.874	12.284	
62797*	63	9.936	13.256	62869	23	0.126	21.709	63025	34	16.290	6.574	63097	8	10.240	12.521	
62798	15	14.357	13.251	62870	10	1.411	21.801	63026	14	18.434	6.168	63098	17	11.040	12.310	
62799	17	20.734	13.700	62871*	39	2.886	21.918	63027	12	20.756	6.819	63099	15	12.855	12.948	
62800*	36	20.910	13.938	62872	10	6.611	21.106	63028	9	21.272	6.492	63100	8	16.858	12.796	
62801	13	25.424	13.927	62873	21	8.600	21.718	63029*	55	21.698	6.872	63101	12	17.477	12.683	
62802	28	6.864	14.655	62874	23	12.688	21.350	63030	11	22.330	6.764	63102	8	20.238	12.656	
62803	10	9.034	14.680	62875	12	13.644	21.404	63031	19	0.562	7.582	63103	18	22.094	12.427	
62804	29	17.750	14.998	62876	11	14.539	21.346	63032	9	0.996	7.301	63104	13	22.552	12.966	
62805	10	21.372	14.386	62877*	43	16.440	21.463	63033	17	3.664	7.900	63105*	41	23.875	12.554	
62806	12	21.940	14.870	62878	23	16.776	21.512	63034	32	4.693	7.466	63106	52	25.878	12.900	
62807	10	22.850	14.808	62879	10	17.497	21.865	63035	12	5.162	7.970	63107	14	3.309	13.753	
62808	10	22.982	14.382	62880	19	18.060	21.614	63036	16	8.351	7.292	63108	9	3.715	13.906	
62809	27	23.397	14.894	62881	10	19.621	21.507	63037	15	11.675	7.980	63109	36	6.250	13.436	
62810	13	25.047	14.651	62882	19	2.098	22.204	63038	34	13.155	7.766	63110	8	6.664	13.434	
62811	17	6.020	15.008	62883	11	5.244	22.930	63039	18	17.415	7.255	63111	15	9.016	13.060	
62812	19	9.578	15.942	62884*	42	7.010	22.835	63040	8	20.474	7.017	63112	34	9.300	13.250	
62813	28	12.083	15.075	62885	16	8.260	22.888	63041	27	23.630	7.071	63113	10	10.348	13.682	
62814	11	14.550	15.768	62886	11	8.540	22.754	63042	11	3.626	8.826	63114	16	11.476	13.934	
62815	15	22.104	15.736	62887*	50	8.945	22.993	63043	9	4.256	8.804	63115	12	11.927	13.942	
62816	10	23.104	15.466	62888	38	8.959	22.985	63044	23	5.978	8.852	63116	14	16.384	13.330	
62817	10	25.105	15.426	62889	19	9.164	22.198	63045	26	12.896	8.498	63117	26	17.250	13.990	
62818	14	7.382	16.380	62890	12	11.860	22.120	63046	24	14.188	8.766	63118	28	22.090	13.934	
62819	11	8.272	16.090	62891	14	12.242	22.625	63047	37	16.498	8.089	63119	14	24.986	13.466	
62820	42	9.932	16.600	62892	10	15.211	22.584	63048	11	20.523	8.034	63120	23	25.332	13.834	
62821	11	12.241	16.327	62893	16	19.955	22.966	63049	10	23.200	8.631	63121	10	0.736	14.645	
62822	15	13.242	16.737	62894	24	25.164	22.400	63050	52	25.494	8.012	63122	10	0.869	14.218	
62823	13	13.529	16.192	62895*	76	1.069	23.136	63051	10	25.575	8.062	63123	29	1.286	14.730	
62824	16	24.150	16.299	62896	19	2.636	23.222	63052	8	2.122	9.084	63124	11	2.936	14.478	
62825	23	4.239	17.746	62897	14	6.822	23.247	63053	18	3.143	9.306	63125	21	4.055	14.522	
62826	14	5.159	17.288	62898*	43	6.851	23.002	63054	30	3.970	9.242	63126	8	4.285	14.451	
62827	40	8.846	17.215	62899	15	7.942	23.893	63055	26	4.236	9.412	63127	8	4.820	14.694	
62828	10	9.210	17.065	62900	13	10.456	23.010	63056	11	6.130	9.626	63128	9	7.634	14.094	
62829	19	12.104	17.450	62901	17	12.106	23.724	63057*	69	7.471	9.489	63129	8	10.962	14.548	
62830	15	12.776	17.653	62902	23	14.774	23.240	63058	10	10.686	9.470	63130	11	13.534	14.978	
62831	11	15.404	17.451	62903	19	15.566	23.265	63059*	45	14.718	9.714	63131	31	14.565	14.846	
62832	11	21.282	17.676	62904	12	16.033	23.418	63060	8	15.080	9.482	63132	12	20.416	14.100	
62833*	53	24.682	17.728	62905	14	16.283	23.540	63061	8	17.408	9.880	63133	17	21.764	14.356	
62834	16	25.588	17.308	62906	10	18.255	23.298	63062	33	18.996	9.185	63134	18	0.000	15.576	
62835	19	4.270	18.772	62907	17	21.474	23.832	63063	23	22.122	9.440	63135	9	0.996	15.300	
62836	14	4.273	18.208	62908	38	2.582	24.666	63064	15	25.754	9.446	63136	11	3.000	15.252	
62837	15	4.376	18.782	62909	17	5.751	24.074	63065	20	4.162	10.712	63137	8	15		

63150	40	7.036	16.090	63222	8	15.025	20.562	63294	37	12.884	25.397	63390	30	5.874	5.667	63462	28	20.977	12.368
63151	29	7.708	16.300	63223	30	18.356	20.596	63295	45	14.070	25.944	63391	11	8.074	5.098	63463*	59	23.272	12.676
63152	25	8.775	16.818	63224	24	19.800	20.218	63296	8	14.088	25.636	63392	29	15.326	5.036	63464	14	25.157	12.429
63153	30	10.215	16.294	63225	14	23.290	20.112	63297	8	18.054	25.522	63393	29	19.212	5.284	63465	12	25.222	12.090
63154	39	15.676	16.436	63226	13	23.916	20.329	63298	36	18.582	25.389	63394	35	19.726	5.568	63466	14	0.118	13.394
63155	12	17.206	16.170	63227	8	1.174	21.630	63299	70	18.773	25.045	63395	24	20.510	5.304	63467	25	2.559	13.876
63156	34	20.026	16.624	63228	8	4.985	21.056	63300	9	18.814	25.638	63396	27	21.570	5.442	63468*	61	3.438	13.300
63157	33	22.329	16.224	63229	20	5.546	21.302	63301	15	21.172	25.280	63397	14	23.962	5.484	63469	24	9.119	13.506
63158	8	22.784	16.693	63230	18	7.356	21.559	63302	14	25.976	25.274	63398	27	3.711	6.857	63470	35	10.300	13.862
63159	32	24.718	16.734	63231	20	7.494	21.406					63399	25	3.908	6.928	63471	22	13.024	13.489
63160*	46	2.582	17.555	63232	19	7.864	21.454					63400	27	4.761	6.118	63472*	43	14.286	13.824
63161	9	3.218	17.757	63233	12	10.828	21.212					63401	21	6.520	6.137	63473	20	16.194	13.595
63162	17	3.490	17.132	63234	28	11.675	21.450					63402	30	7.870	6.680	63474	10	18.344	13.351
63163	10	4.024	17.229	63235	9	11.986	21.824					63403	22	16.309	6.108	63475	34	20.024	13.518
63164	8	5.044	17.315	63236	24	12.184	21.931					63404	12	20.252	6.774	63476	12	21.224	13.802
63165	11	10.514	17.286	63237	11	12.360	21.494					63405	22	23.286	6.989	63477	13	23.319	13.730
63166	29	11.400	17.140	63238	19	13.165	21.620					63406	32	1.155	7.491	63478	34	24.018	13.528
63167	28	13.489	17.767	63239	20	15.900	21.762					63407	11	7.549	7.692	63479	32	24.798	13.400
63168	14	13.586	17.546	63240	23	16.595	21.192					63408	28	7.822	7.622	63480	30	25.327	13.275
63169	29	14.314	17.252	63241	10	17.415	21.764					63409	22	10.846	7.911	63481	23	25.926	13.150
63170	15	14.526	17.292	63242	8	17.477	21.918					63410	30	19.119	7.998	63482	27	2.906	14.240
63171	30	14.554	17.569	63243	14	17.712	21.790					63411	22	22.348	7.428	63483	38	5.797	14.788
63172	14	14.802	17.390	63244	24	21.250	21.539					63412	12	22.452	7.830	63484	38	6.136	14.544
63173	12	15.235	17.478	63245	26	22.496	21.980					63413	11	25.418	7.273	63485	28	9.906	14.051
63174	8	15.881	17.645	63246	21	22.845	21.550					63414*	52	3.016	8.418	63486	13	11.270	14.332
63175*	43	15.941	17.912	63247	8	23.088	21.494					63415	13	3.109	8.466	63487	28	11.472	14.210
63176	15	17.285	17.660	63248	32	3.088	22.229					63416	26	4.392	8.688	63488	13	11.764	14.178
63177	8	21.575	17.887	63249*	44	5.408	22.405					63417	31	9.424	8.268	63489	23	13.222	14.392
63178	8	22.664	17.870	63250	15	7.136	22.318					63418	20	9.882	8.755	63490	22	18.016	14.006
63179	26	25.426	17.022	63251*	39	9.367	22.041					63419	15	10.666	8.882	63491	32	25.758	14.735
63180	29	1.149	18.294	63252	15	12.013	22.020					63420	11	12.280	8.894	63492	27	6.638	15.150
63181	8	1.758	18.240	63253*	63	12.250	22.275					63421	19	16.140	8.645	63493	22	10.194	15.068
63182	13	1.946	18.960	63254	29	15.370	22.416					63422	26	19.404	8.183	63494	12	13.586	15.668
63183	17	5.472	18.796	63255	29	17.750	22.306					63423	19	20.334	8.872	63495	28	18.998	15.962
63184	12	6.256	18.146	63256*	42	21.823	22.167					63424	43	22.329	8.636	63496	12	22.144	15.448
63185	8	6.777	18.605	63257*	31	21.849	22.279					63425	32	23.487	8.378	63497	19	22.564	15.282
63186	18	7.928	18.572	63258	8	23.154	22.050					63426	13	0.733	9.058	63498	26	23.274	15.664
63187	8	10.558	18.008	63259	8	24.265	22.480					63427	22	3.296	9.851	63499	14	0.855	16.357
63188	26	11.392	18.609	63260	8	2.966	23.560					63428	23	6.936	9.641	63500	12	1.860	16.362
63189	13	14.219	18.269	63261	8	3.904	23.044					63429	15	7.776	9.980	63501	14	10.934	16.294
63190	16	15.171	18.314	63262	8	4.042	23.052					63430	15	13.391	9.229	63502	13	14.023	16.146
63191	24	17.076	18.581	63263	15	6.994	23.491					63431	31	16.052	9.566	63503	33	2.318	17.146
63192	16	18.500	18.020	63264	12	9.418	23.444					63432	25	16.715	9.956	63504	31	3.025	17.428
63193	8	18.930	18.414	63265	23	9.928	23.920					63433	38	2.744	10.817	63505	18	3.920	17.850
63194	11	22.650	18.090	63266	12	11.508	23.580					63434	31	3.147	10.620	63506*	104	10.560	17.044
63195	22	22.700	18.500	63267	10	12.414	23.384					63435	35	4.384	10.100	63507	33	12.756	17.042
63196	24	23.472	18.742	63268	8	13.644	23.548					63436	13	9.983	10.222	63508	18	16.110	17.770
63197	8	24.821	18.800	63269	9	14.500	23.790					63437	12	12.231	10.072	63509	30	16.592	17.126
63198	9	1.674	19.044	63270	9	14.756	23.232					63438	38	16.099	10.367	63510	70	25.656	17.222
63199	32	2.847	19.812	63271	13	15.971	23.402					63439	38	17.170	10.678	63511	29	25.922	17.556
63200	30	3.790	19.544	63272	25	20.304	23.870					63440*	58	18.026	10.218	63512	14	0.256	18.522
63201*	46	4.871	19.556	63273	23	21.958	23.216					63341	20	22.381	10.771	63513	20	0.312	18.928
63202	21	12.571	19.390	63274	11	22.670	23.888					63442	23	23.698	10.363	63514	13	5.475	18.355
63203	11	13.024	19.226	63275	10	22.680	23.874					63443	12	0.138	11.859	63515	35	7.350	18.880
63204	15	16.062	19.064	63276	11	0.484	24.214					63444	13	5.906	11.408	63516	13	9.103	18.106
63205	21	18.070	19.539	63277	8	0.619	24.217					63445	14	7.674	11.412	63517	29	11.439	18.280
63206	22	18.659	19.158	63278*	41	1.248	24.518					63446	24	9.696	11.510	63518*	46	18.060	18.240
63207	26	20.998	19.481	63279	8	7.404	24.494					63447	38	9.824	11.626	63519	16	19.282	18.090
63208	29	25.746	19.180	63280	24	10.179	24.339					63448	17	14.909	11.407	63520	30	22.722	18.643
63209	14	0.164	20.317	63281	35	11.333	24.720					63449	37	16.414	11.351	63521	28	1.086	19.166
63210	35	6.030	20.121	63282*	41	12.862	24.908					63450	12	18.773	11.312	63522	33	3.364	19.581
63211	11	6.756	20.683	63283	22	13.488	24.970					63451*	70	20.502	11.131	63523	29	9.066	19.691
63212	26	6.874	20.001	63284	8	18.707	24.475					63452	24	21.054	11.438	63524	22	9.222	19.727
63213*	63	7.856	20.240	63285	8	20.866	24.824					63453*	40	23.816	11.674	63525	33	11.504	19.978
63214	28	10.625	20.440	63286	30	23.522	24.438					63454*	43	24.553	11.975	63526	39	12.818	19.426
63215	8	10.634	20.634	63287	10	3.950	25.480					63455*	45	1.436	12.972	63527	38	18.456	19.700
63216	8	11.061	20.478	63288	11	4.464	25.045					63456	31	6.813	12.466	63528	39	18.513	19.008
63217	12	11.255	20.598	63289	19	5.156	25.488					63457	11	8.422	12.410	63529	21	21.276	19.732
63218	11	11.528	20.222	63290	28	6.948	25.691					63							

63534	13	3.650	20.362	<div>R.A. 22^h 0^m</div> <div>Plate 1117; 1917 Nov. 4.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—02540 +00422 +0651</div> <div>D E F</div> <div>—00413 —02574 —2855</div> <div>Mag.=16.5 —1.05√d</div>	63656*	36	19.516	5.878	63728	9	13.472	13.254	63800	13	10.316	20.888
63535	20	4.148	20.190		63657	16	19.664	5.979	63729	12	23.146	13.590	63801	9	17.208	20.022
63536	25	6.921	20.716		63658	13	19.916	5.171	63730	10	23.433	13.044	63802	17	19.505	20.678
63537	35	15.744	20.403		63659	38	21.354	5.872	63731	13	23.955	13.890	63803	10	21.188	20.300
63538*	41	18.393	20.642		63660	11	0.896	6.656	63732	11	0.521	14.998	63804	10	21.196	20.254
63539	12	22.614	20.098		63661	14	1.121	6.698	63733	19	3.710	14.404	63805	13	7.010	21.434
63540	30	22.706	20.573		63662	11	3.260	6.950	63734	20	4.450	14.190	63806	12	7.884	21.064
63541	28	22.855	20.857		63663	14	8.909	6.096	63735	11	11.208	14.070	63807	12	10.890	21.416
63542	21	0.479	21.977		63664	11	13.692	6.450	63736*	25	12.198	14.478	63808	15	14.265	21.443
63543	26	5.708	21.904		63665	26	13.896	6.402	63737	23	13.602	14.944	63809	18	15.596	21.694
63544*	41	6.662	21.044	63666	19	19.161	6.826	63738	12	17.472	14.834	63810	22	18.196	21.490	
63545	35	9.084	21.032	63667	11	19.980	6.346	63739	10	20.130	14.712	63811	10	25.764	21.254	
63546	23	19.134	21.296	63668	21	24.623	6.465	63740	12	22.200	14.366	63812	20	7.246	22.966	
63547	29	0.136	22.412	63669	12	0.190	7.146	63741	14	1.238	15.368	63813	18	9.337	22.685	
63548	14	1.904	22.896	63670	27	7.344	7.268	63742	10	5.840	15.095	63814	11	12.002	22.544	
63549	22	5.494	22.578	63671	9	10.940	7.628	63743*	54	9.190	15.836	63815	10	15.800	22.072	
63550	28	6.790	22.526	63672	17	11.112	7.710	63744	14	11.240	15.330	63816	14	17.342	22.036	
63551	28	8.120	22.472	63673	14	11.752	7.572	63745	15	12.162	15.010	63817	35	20.354	22.885	
63552	21	13.378	22.518	63674	19	22.398	7.606	63746	27	12.270	15.714	63818	29	25.922	22.532	
63553	31	14.571	22.200	63675	10	22.904	7.114	63747	10	12.370	15.112	63819	15	4.534	23.522	
63554	18	15.769	22.290	63676	29	0.186	8.356	63748	10	13.808	15.168	63820	12	6.350	23.649	
63555	29	20.222	22.147	63677	16	1.346	8.083	63749	14	15.532	15.808	63821	12	7.330	23.732	
63556	13	2.580	23.890	63678	13	4.519	8.701	63750	12	16.270	15.764	63822	21	9.339	23.224	
63557	22	4.874	23.078	63679	11	8.380	8.284	63751	21	16.976	15.210	63823	34	9.540	23.206	
63558	13	6.361	23.620	63680	12	13.785	8.475	63752	10	17.100	15.288	63824	11	9.798	23.230	
63559	13	6.390	23.731	63681	27	21.029	8.665	63753	8	18.252	15.390	63825	14	11.436	23.399	
63560	31	6.504	23.422	63682	10	23.591	8.689	63754	11	21.776	15.045	63826	10	12.778	23.555	
63561	20	8.820	23.088	63683	9	3.548	9.540	63755	10	22.708	15.516	63827	10	14.698	23.036	
63562	24	9.232	23.938	63684	18	6.023	9.191	63756*	85	3.634	16.893	63828	13	17.536	23.300	
63563	31	11.660	23.570	63685	18	7.307	9.584	63757	12	7.482	16.836	63829	18	18.342	23.490	
63564	15	12.204	23.267	63686*	28	7.808	9.732	63758	13	11.465	16.004	63830	13	19.184	23.057	
63565	13	12.727	23.026	63687	10	8.139	9.616	63759	35	15.226	16.456	63831	12	22.641	23.894	
63566	31	13.133	23.634	63688	9	8.836	9.187	63760	25	20.156	16.157	63832*	64	22.850	23.728	
63567	27	13.224	23.652	63689	10	13.758	9.338	63761*	69	20.493	16.100	63833	47	23.846	23.250	
63568	14	15.536	23.713	63690	12	14.118	9.075	63762	9	21.085	16.441	63834*	56	23.874	23.339	
63569	30	17.160	23.328	63691	14	0.267	10.494	63763*	39	22.488	16.864	63835	22	0.197	24.256	
63570	35	20.918	23.422	63692	14	1.582	10.064	63764	10	24.284	16.260	63836	10	3.414	24.804	
63571	17	0.335	24.302	63693	26	5.132	10.274	63765	41	25.176	16.962	63837	11	3.750	24.238	
63572	34	1.183	24.862	63694	9	7.905	10.652	63766	19	3.913	17.225	63838	10	4.674	24.812	
63573	26	4.306	24.536	63695	20	13.432	10.810	63767	10	4.167	17.900	63839	10	6.658	24.290	
63574	33	4.969	24.586	63696	12	15.314	10.893	63768	10	4.634	17.548	63840	22	9.216	24.364	
63575	21	7.134	24.306	63697	16	17.728	10.368	63769	15	7.996	17.134	63841	20	10.256	24.209	
63576	10	9.136	24.785	63698	26	19.560	10.835	63770	10	19.025	17.936	63842	21	12.662	24.850	
63577	30	12.120	24.193	63699	13	22.694	10.993	63771*	42	19.464	17.234	63843	9	12.829	24.402	
63578*	48	15.164	24.812	63700	15	25.180	10.968	63772	24	20.972	17.179	63844	18	16.690	24.872	
63579	16	18.186	24.095	63701*	27	1.720	11.370	63773	45	25.648	17.998	63845	15	19.309	24.050	
63580	26	20.282	24.305	63702*	34	2.459	11.665	63774	14	0.726	18.358	63846*	116	22.521	24.138	
63581	37	22.100	24.536	63703	11	3.140	11.771	63775	10	1.278	18.906	63847	15	23.652	24.140	
63582	28	3.646	25.679	63704	11	3.707	11.123	63776	10	3.638	18.767	63848	11	25.034	24.785	
63583	22	10.266	25.335	63705*	50	5.770	11.337	63777	16	6.423	18.027	63849	26	0.941	25.039	
63584	23	11.005	25.060	63706	10	9.262	11.156	63778	21	7.235	18.325	63850	11	1.082	25.071	
63585	17	11.630	25.534	63707	11	12.312	11.458	63779	12	12.674	18.699	63851	16	2.062	25.826	
63586	33	13.678	25.478	63708	14	19.520	11.226	63780	10	14.549	18.721	63852	14	4.423	25.958	
63587	30	14.367	25.758	63709	13	20.462	11.660	63781	11	14.866	18.908	63853	21	4.632	25.306	
63588	12	19.674	25.912	63710	12	21.456	11.357	63782	13	18.715	18.626	63854	10	5.390	25.300	
63589	33	21.487	25.723	63711*	65	1.186	12.384	63783	12	21.700	18.078	63855	12	13.237	25.818	
63590	40	22.834	25.328	63712	10	2.284	12.657	63784	10	25.112	18.973	63856	74	13.688	25.851	
63591	13	22.974	25.360	63713	17	3.254	12.950	63785	9	3.792	19.807	63857	26	17.574	25.839	
				63714	12	3.852	12.818	63786	12	7.263	19.601	63858	13	24.056	25.272	
				63715	14	6.586	12.052	63787	12	10.333	19.665					
				63716	1											

R.A. 22^h 8^m

Plate 1123; 1917 Nov. 6.

*Provisional Constants.*A B C
-02546 +00439 +0054D E F
-00423 -02580 +0185 $Mag. = 16.0 - 1.05\sqrt{d}$

No.	d	x	y
63901	10	21.790	0.644
63902	24	1.553	1.546
63903	27	14.056	1.966
63904	23	18.740	1.264
63905	10	3.807	2.797
63906	19	4.632	2.824
63907	16	7.588	2.870
63908*	45	11.794	2.299
63909*	40	15.413	2.150
63910	13	18.001	2.173
63911	23	23.206	2.575
63912	24	24.268	2.821
63913	33	0.580	3.639
63914	27	17.891	3.405
63915	16	20.340	3.216
63916	12	23.303	3.449
63917	11	3.299	4.264
63918	12	7.640	4.048
63919	18	10.600	4.024
63920	10	12.470	4.826
63921	12	12.940	4.802
63922	12	13.352	4.005
63923	23	13.474	4.202
63924	11	14.568	4.333
63925	24	15.453	4.584
63926	10	16.402	4.198
63927	9	11.627	5.435
63928	17	14.101	5.267
63929	10	16.911	1.158
63930	19	17.076	5.417
63931	24	18.016	5.916
63932	34	20.194	5.931
63933	9	20.677	5.754
63934	18	21.660	5.665
63935	21	2.253	6.845
63936	9	9.282	6.880
63937	13	11.116	6.190
63938	18	13.706	6.219
63939	12	14.894	6.932
63940	14	15.708	6.066
63941	28	18.596	6.705
63942	23	18.674	6.594
63943	12	22.500	6.730
63944*	44	22.538	6.566
63945	16	25.745	6.711
63946	18	3.884	7.180
63947	9	15.540	7.961
63948	14	21.728	7.770
63949	19	21.945	7.758
63950	18	22.014	7.999
63951	15	23.774	7.614
63952	17	0.040	8.013
63953	11	3.671	8.386
63954	12	3.862	8.193
63955	17	8.773	8.252

63956	13	8.788	8.272	64028	22	25.554	17.206
63957	10	11.291	8.052	64029*	42	3.394	18.366
63958	15	13.635	8.260	64030*	27	8.113	18.107
63959	10	14.546	8.869	64031	9	8.601	18.885
63960*	34	17.002	8.424	64032*	44	10.242	18.746
63961	8	19.772	8.474	64033	24	18.735	18.078
63962	21	23.611	8.108	64034	21	21.441	18.178
63963	24	25.880	8.146	64035	29	21.498	18.159
63964	15	3.864	9.317	64036	14	24.148	18.056
63965	17	6.708	9.584	64037	22	24.428	18.790
63966	20	9.526	9.491	64038	35	25.660	18.260
63967	10	10.122	9.479	64039	16	7.921	19.135
63968*	24	12.625	9.428	64040*	26	9.540	19.926
63869	25	17.186	9.970	64041	18	9.734	19.455
63970*	51	20.630	9.147	64042	18	8.871	20.246
63971	14	22.068	9.332	64043	14	11.202	20.296
63972	13	5.782	10.544	64044	14	16.740	20.728
63973	12	6.812	10.178	64045*	35	19.062	20.090
63974	22	13.018	10.706	64046*	45	24.113	20.362
63975	14	19.716	10.228	64047	24	25.350	20.777
63976	18	20.140	10.724	64048	18	9.867	21.346
63977	9	21.380	10.480	64049	22	21.378	21.169
63978	13	25.023	10.954	64050	11	21.502	21.525
63979	12	0.372	11.394	64051	32	3.722	22.898
63980	16	4.991	11.258	64052	22	5.564	22.458
63981	11	7.092	11.607	64053	18	10.134	22.966
63982	12	8.194	11.743	64054	54	1.653	23.638
63983	26	11.400	11.540	64055*	60	1.678	23.728
63984	13	11.648	11.410	64056	11	2.268	23.303
63985	13	13.154	11.530	64057	26	6.206	23.010
63986	15	14.788	11.834	64058	20	11.516	23.312
63987	12	23.860	11.000	64059	15	12.266	23.758
63988	23	4.277	12.310	64060*	40	13.449	23.750
63989	20	4.854	12.907	64061	14	18.660	23.884
63990	14	8.908	12.795	64062	13	18.961	23.120
63991	10	12.695	12.614	64063	13	19.806	23.324
63992	24	18.795	12.626	64064	107	0.332	24.542
63993*	35	20.331	12.776	64065	60	0.661	24.128
63994	8	24.293	12.035	64066	18	1.472	24.528
63995	13	25.680	12.720	64067	40	7.774	24.656
63996	9	5.049	13.606	64068	9	7.944	24.733
63997	20	6.426	13.236	64069	11	9.244	24.634
63998	17	10.275	13.959	64070	23	11.048	24.487
63999	11	10.778	13.616	64071	12	15.480	24.822
64000	12	11.092	13.672	64072	22	17.440	24.882
64001	15	14.117	13.770	64073	24	19.061	24.210
64002	13	16.228	13.750	64074	12	19.580	24.528
64003	11	19.821	13.518	64075	16	1.891	25.655
64004	15	22.376	13.995	64076	14	2.858	25.160
64005	13	24.976	13.075	64077	30	12.286	25.147
64006	11	25.000	13.884	64078	14	12.717	25.832
64007	17	1.665	14.276	64079	34	14.385	25.484
64008	13	5.960	14.216	64080	17	18.227	25.352
64009	16	11.228	14.576	64081	16	18.576	25.068
64010	13	12.944	14.284	64082	14	25.228	25.374
64011	18	19.912	14.802				
64012	8	23.279	14.541				
64013	22	12.676	15.598				
64014	17	14.020	15.302				
64015*	30	15.862	15.450				
64016	12	17.297	15.882				
64017	17	8.088	16.998				
64018	17	10.786	16.932				
64019	22	17.748	16.463				
64020	33	0.226	17.268				
64021*	40	2.915	17.336				
64022	14	6.645	17.480				
64023	20	17.683	17.594				
64024	24	18.054	17.574				
64025	23	19.438	17.685				
64026	11	20.110	17.653				
64027	23	21.851	17.318				

R.A. 22^h 16^m

Plate 814; 1916 Nov. 19.

*Provisional Constants.*A B C
-02560 +00343 +01143D E F
-00340 -02604 -01593 $Mag. = 16.5 - 1.05\sqrt{d}$

No.	d	x	y				
64101	8	11.666	0.846	64171	40	18.934	9.186
64102	19	16.035	0.625	64172*	45	19.922	9.676
64103	22	17.742	0.042	64173	40	22.164	9.257
64104	13	20.130	0.115	64174	13	25.244	9.040
64105	43	6.415	1.016	64175	9	0.610	10.092
64106*	45	10.143	1.738	64176	16	1.680	10.914
64107	20	10.880	1.430	64177	29	2.844	10.857
64108	44	14.177	1.178	64178	11	9.027	10.796
64109	37	15.568	1.460	64179	8	10.171	10.718
64110	8	15.664	1.300	64180	36	11.667	10.610
64111	12	18.190	1.102	64181	11	12.758	10.520
64112	11	0.736	2.399	64182	9	17.550	10.360
64113	38	0.946	2.496	64183	9	24.090	10.686
64114	30	2.010	2.732	64184	15	2.122	11.944
64115	13	3.491	2.118	64185	14	11.126	11.812
64116	31	7.241	2.551	64186	38	14.564	11.623
64117	38	8.374	2.654	64187	9	15.842	11.450
64118	19	11.444	2.460	64188	10	22.560	11.293
64119	11	15.076	2.094	64189	43	24.036	11.476
64120*	39	15.378	2.988	64190	15	2.815	12.982
64121	12	18.625	2.814	64191	21	3.516	12.616
64122	40	19.104	2.805	64192	20	4.112	12.904
64123	12	20.330	2.979	64193	21	5.495	12.326
64124	9	1.052	3.368	64194	10	8.155	12.192
64125*	80	7.629	3.177	64195*	46	8.712	12.092
64126	22	7.650	3.523	64196	8	17.721	12.378
64127	24	12.172	3.388	64197	26	18.820	12.994
64128	39	12.182	3.244	64198	22	24.232	12.507
64129	33	22.632	3.051	64199	51	25.994	12.784
64130	37	5.434	4.545	64200	22	0.219	13.922
64131	22	8.034	4.307	64201	20	2.847	13.790
64132	9	12.528	4.137	64202	28	7.400	13.326
64133	9	17.786	4.747	64203	8	8.114	13.422
64134	30	20.740	4.036	64204	10	10.501	13.586
64135	24	21.952	4.545	64205	10	10.528	13.593
64136	15	4.086	5.095	64206	10	16.636	13.540
64137	41	7.076	5.406	64207	9	18.544	13.706
64138	17	8.857	5.340	64208*	49	21.565	13.626
64139	10	11.104	5.046	64209	23	22.066	13.666
64140	41	12.078	5.719	64210	14	1.134	14.464
64141	39	14.768	5.032	64211	35	15.645	14.866
64142	40	17.852	5.227	64212	8	18.154	14.116
64143	15	0.278	6.662	64213	38	19.043	14.083
64144	52	0.310	6.491	64214	13	22.565	14.265
64145	23	3.530	6.608	64215	36	22.613	14.648
64146	23	5.115	6.356	64216	9	5.636	15.434
64147	26	5.973	6.340	64217	17	6.055	15.566
64148	18	8.842	6.653	64218	30	6.336	15.876
64149	26	18.426	6.736	64219	8	11.741	15.806
64150	30	1.560	7.530	64220	38	14.206	15.943
64151	31	6.414	7.744	64221	8	19.886	15.895
64152	31	6.446	7.734	64222	32	20.126	15.328
64153	34	9.942	7.746	64223	18	21.032	15.766
64154	8	21.938	7.924	64224	20	4.776	16.644
64155	9	21.955	7.593	64225	21	4.784	16.624
				64226	31	5.186	16.916
				64227	35	10.085	16.736

64228	24	10.406	16.228	64300*	46	12.733	24.285	64391	36	12.244	6.724	64463*	30	5.881	15.905	64535	14	11.152	24.177
64229	8	11.571	16.884	64301	27	12.994	24.074	64392	20	12.608	6.329	64464	16	8.150	15.764	64536	28	12.415	24.608
64230	25	11.776	16.966	64302	25	18.296	24.584	64393	22	14.835	6.328	64465	36	11.119	15.494	64537*	32	17.482	24.488
64231	22	15.196	16.876	64303	14	19.166	24.006	64394	17	21.294	6.691	64466*	39	16.120	15.674	64538	34	22.776	24.842
64232	8	19.514	16.442	64304	11	20.800	24.475	64395	42	0.026	7.717	64467*	46	23.714	15.858	64539*	70	4.005	25.072
64233	36	19.728	16.056	64305	27	3.192	25.276	64396	15	1.193	7.174	64468	24	25.725	15.418	64540	17	10.200	25.476
64234	22	2.036	17.970	64306	8	3.956	25.242	64397	23	1.902	7.143	64469	12	2.646	16.920	64541	28	11.548	25.417
64235	31	3.420	17.106	64307	10	4.294	25.075	64398	20	5.258	7.524	64470	16	6.120	16.188	64542	30	18.460	25.038
64236	9	5.305	17.244					64399	17	6.698	7.044	64471	28	6.870	16.498	64543	26	18.734	25.150
64237	11	6.878	17.700					64400	17	16.200	7.999	64472	20	7.138	16.694	64544	19	21.202	25.629
64238	8	7.354	17.563					64401	11	17.607	7.956	64473	24	9.094	16.464	64545	21	24.164	25.382
64239	9	17.680	17.244					64402	13	17.784	7.742	64474	17	20.823	16.873				
64240	20	17.974	17.752					64403	13	18.068	7.465	64475	33	24.106	16.984				
64241	11	21.122	17.746					64404	36	19.074	7.086	64476	36	24.588	16.564				
64242	18	21.394	17.164					64405	24	19.897	7.170	64477	18	24.579	16.134				
64243	43	21.758	17.994					64406	16	22.038	7.626	64478	18	11.480	17.479				
64244	8	24.540	17.036					64407	17	4.670	8.480	64479	20	13.414	17.094				
64245	35	2.325	18.700					64408	36	13.935	8.985	64480	26	16.036	17.849				
64246*	44	3.550	18.158					64409	26	18.327	8.400	64481	17	19.233	17.956				
64247	24	9.606	18.708					64410	28	19.190	8.494	64482	15	21.308	17.044				
64248	34	12.859	18.594					64411	15	23.085	8.398	64483	27	1.846	18.942				
64249	14	13.390	18.874					64412	28	25.950	8.906	64484	17	2.500	18.134				
64250	41	13.976	18.900					64413	11	0.177	9.036	64485*	58	4.010	18.576				
64251	38	16.508	18.904					64414	21	2.806	9.105	64486	13	6.702	18.707				
64252	14	18.067	18.826					64415*	58	6.128	9.828	64487	14	9.290	18.392				
64253	16	20.153	18.684					64416*	68	8.274	9.936	64488	25	10.126	18.336				
64254	37	24.196	18.869					64417	40	8.300	9.938	64489	11	11.339	18.276				
64255	17	24.854	18.066					64418	28	8.818	9.463	64490	19	12.764	18.518				
64256	21	10.864	19.374					64419	25	13.636	9.742	64491	28	12.776	18.450				
64257	34	13.894	19.322					64420	23	15.568	9.901	64492	23	12.976	18.798				
64258	31	16.644	19.206					64421	26	25.462	9.543	64493	16	15.840	18.686				
64259	30	17.876	19.434					64422	11	1.670	10.757	64494	16	16.448	18.193				
64260	24	18.342	19.487					64423	14	3.200	10.711	64495	16	19.264	18.892				
64261	11	20.969	19.264					64424*	34	3.950	10.797	64496	18	3.245	19.460				
64262	18	21.616	19.475					64425	24	5.533	10.373	64497	22	5.248	19.614				
64263	8	23.838	19.472					64426	22	8.606	10.615	64498	20	10.440	19.462				
64264	23	25.587	19.400					64427	22	11.986	10.404	64499	21	16.290	19.966				
64265*	52	2.020	20.276					64428	13	12.276	10.842	64500	18	19.597	19.512				
64266	40	3.265	20.680					64429	20	12.312	10.092	64501	17	20.965	19.674				
64267	8	4.552	20.546					64430	26	14.895	10.128	64502	24	2.036	20.520				
64268	21	6.691	20.148					64431	15	16.114	10.715	64503	19	5.814	20.524				
64269	9	6.808	20.864					64432	26	17.603	10.539	64504	20	8.714	20.688				
64270	14	10.474	20.059					64433	34	1.619	11.550	64505*	44	8.934	20.057				
64271	11	13.914	20.957					64434	23	5.827	11.758	64506	15	9.473	20.232				
64272	10	15.584	20.152					64435*	36	22.986	11.894	64507	18	16.117	20.236				
64273	38	20.453	20.869					64436	15	1.572	12.508	64508	24	16.894	20.528				
64274	8	21.852	20.203					64437	20	1.826	12.580	64509	18	19.618	20.520				
64275	24	24.370	20.449					64438*	44	3.585	12.840	64510	24	20.327	20.335				
64276	9	0.504	21.800					64439*	41	4.461	12.866	64511	24	0.112	21.550				
64277	40	8.274	21.208					64440	28	4.927	12.060	64512	23	8.420	21.816				
64278	10	10.828	21.546					64441	16	11.556	12.504	64513	16	13.358	21.065				
64279	42	15.410	21.614					64442	22	19.430	12.760	64514	16	16.636	21.356				
64280	34	16.893	21.854					64443	16	21.524	12.950	64515	15	17.900	21.886				
64281	12	22.438	21.463					64444	11	21.774	12.323	64516	24	19.576	21.741				
64282	9	0.976	22.803					64445*	60	22.820	12.679	64517	25	21.209	21.710				
64283	30	5.052	22.192					64446	19	24.204	12.626	64518*	56	3.422	22.635				
64284	10	5.838	22.699					64447	30	24.576	12.746	64519	22	11.650	22.279				
64285	31	6.776	22.546					64448	29	24.892	12.720	64520	30	13.426	22.808				
64286	29	11.196	22.423					64449	12	3.682	13.432	64521	32	14.217	22.152				
64287	36	14.357	22.383					64450	15	11.914	13.210	64522	20	17.288	22.048				
64288	31	16.853	22.546					64451	20	17.428	13.798	64523	24	17.670	22.698				
64289	34	19.322	22.754					64452	24	25.301	13.288	64524	22	19.329	22.900				
64290	22	20.076	22.658					64453	32	25.799	13.088	64525	16	22.683	22.400				
64291	15	20.944	22.175					64454	28	0.224	14.734	64526	16	6.034	23.908				
64292	56	25.740	22.580					64455	17	0.283	14.837	64527	21	6.498	23.858				
64293	8	1.606	23.523					64456	26	5.444	14.153	64528	18	8.818	23.360				
64294	8	4.384	23.926					64457*	36	7.129	14.634	64529*	36	14.511	23.260				
64295	21	10.305	23.528					64458	26	10.736	14.924	64530	17	17.391	23.407				
64296	30	14.346	23.066					64459	34	16.275	14.364	64531	24	21.931	23.328				
64297	29	20.818	23.893					64460*	30	20.301	14.364	64532	17	25.469	23.884				
64298	16	3.752	24.685					64461	23	22.120	14.067	64533	18	3.344	24.428				
64299	29	7.646	24.816					64462*	34	4.654	15.128	64534	23	10.990	24.304				

R.A. 22^h 24^m

Plate 1102; 1917 Oct. 14.

Provisional Constants.

A	B	C
-02567	+00168	-0193

D	E	F
-00170	-02564	-1644

Mag. = 16.1 - 1.05√d

No.	d	x	y
64351	28	4.714	0.824
64352	26	13.726	0.716
64353*	62	14.300	0.542
64354	31	23.116	0.299
64355	36	4.864	1.885
64356	16	6.946	1.430
64357	19	8.317	1.646
64358	13	15.189	1.77

64591	35	21.670	4.034	64663*	43	20.065	16.359		64806	43	15.079	7.048	64878	13	22.437	13.512
64592*	66	21.746	4.232	64664	30	20.490	16.622	R.A. 22^h 40^m	64807*	44	16.273	7.640	64879	9	23.288	13.687
64593	31	12.357	5.739	64665	13	23.258	16.182	Plate 815 ; 1916 Nov. 19.	64808	10	17.628	7.539	64880	25	24.924	13.255
64594	11	13.713	5.387	64666	34	1.842	17.092	Provisional Constants.	64809*	45	19.129	7.835	64881	8	25.104	13.259
64595	22	16.120	5.894	64667	11	3.882	17.529	A B C	64810	8	19.163	7.386	64882*	50	8.514	14.129
64596	17	22.319	5.083	64668	10	4.084	17.336	—02542 +00212 +1659	64811	8	22.326	7.296	64883	9	9.680	14.906
64597	14	4.498	6.700	64669	12	4.932	17.270	D E F	64812*	52	22.774	7.090	64884	17	14.943	14.692
64598	13	6.502	6.378	64670	37	5.453	17.792	—00217 —02584 +0170	64813	19	24.742	7.344	64885	8	17.286	14.362
64599	12	19.698	6.944	64671	33	8.644	17.087	Mag. = 16.4 — 1.05√d	64814	16	2.564	8.797	64886	18	2.532	15.407
64600	11	19.208	7.299	64672	12	13.906	17.966		64815	8	5.502	8.604	64887	39	2.611	15.193
64601	10	2.856	8.578	64673	14	18.529	17.280		64816	29	5.906	8.858	64888	9	3.482	15.792
64602	31	3.581	8.992	64674	12	24.649	17.407		64817	19	6.086	8.127	64889	17	3.676	15.640
64603	24	5.680	8.573	64675	14	1.509	18.103		64818	25	10.135	8.244	64890	33	7.228	15.402
64604	31	12.782	8.818	64676	11	5.641	18.764		64819	25	11.625	8.081	64891	10	7.433	15.302
64605	12	19.063	8.064	64677	15	8.018	18.668		64820	8	13.938	8.112	64892	10	8.031	15.502
64606	19	24.590	8.601	64678	13	11.700	18.744		64821	14	15.730	8.192	64893	12	9.686	15.358
64607	21	3.098	9.635	64679	19	15.976	18.528		64822	9	1.036	9.476	64894	11	11.026	15.056
64608*	60	7.226	9.930	64680	34	17.202	18.649		64823	8	3.130	9.955	64895	8	11.530	15.462
64609	27	7.276	9.074	64681*	39	19.806	18.132		64824	8	4.922	9.420	64896	14	12.306	15.470
64610	15	9.126	9.306	64682	16	24.786	18.014		64825	10	5.176	9.964	64897	9	17.360	15.897
64611	12	13.426	9.162	64683	22	8.320	19.599		64826	10	8.913	9.792	64898	10	21.048	15.137
64612	25	18.287	9.967	64684	15	10.758	19.297		64827	32	13.589	9.928	64899	21	21.878	15.377
64613	10	23.348	9.954	64685	13	11.436	19.665		64828	9	18.378	9.197	64900	10	1.290	16.388
64614	22	10.025	10.480	64686	25	13.711	19.082		64829	19	19.768	9.630	64901	8	3.112	16.566
64615	13	15.102	10.680	64687	34	15.350	19.828		64830	8	20.015	9.207	64902*	40	6.963	16.998
64616	25	19.544	10.126	64688	31	20.403	19.216		64831	10	20.296	9.702	64903	8	7.316	16.938
64617	32	22.864	10.738	64689	31	24.216	19.654		64832	20	22.162	9.126	64904	9	12.406	16.734
64618	26	6.344	11.213	64690	34	4.474	20.626		64833	14	22.524	9.130	64905	19	17.418	16.148
64619	28	15.238	11.610	64691*	49	5.142	20.196		64834	25	23.088	9.423	64906	37	18.174	16.854
64620	12	18.356	11.882	64692	31	6.628	20.400		64835	8	23.444	9.734	64907	29	24.227	16.750
64621	38	19.020	11.502	64693	35	9.808	20.420		64836	12	24.046	9.354	64908	11	2.694	17.602
64622	24	24.532	11.842	64694*	45	10.289	20.236		64837	24	0.853	10.946	64909	9	9.285	17.002
64623	70	0.494	12.809	64695	12	12.148	20.557		64838	9	0.975	10.371	64910	8	11.692	17.970
64624*	44	0.652	12.020	64696	29	12.302	20.783		64839	10	4.597	10.296	64911	8	13.546	17.548
64625	14	1.882	12.738	64697	29	15.180	20.691		64840	10	5.516	10.856	64912	10	19.428	17.066
64626	32	2.257	12.852	64698	19	18.598	20.136		64841	10	8.060	10.660	64913	16	22.808	17.118
64627	28	2.572	12.822	64699	12	20.672	20.734		64842	32	10.251	10.524	64914	15	2.834	18.207
64628*	44	4.584	12.860	64700	26	7.508	21.250		64843	38	14.807	10.405	64915	28	9.883	18.422
64629*	75	8.237	12.288	64701	34	9.504	21.652		64844	9	16.680	10.684	64916	10	10.508	18.414
64630*	40	9.202	12.612	64702*	50	10.483	21.778		64845	15	18.776	10.689	64917	15	15.878	18.468
64631	31	9.988	12.311	64703	13	17.886	21.996		64846*	64	21.892	10.127	64918	8	16.203	18.583
64632*	27	17.832	12.767	64704	14	11.065	22.380		64847	8	0.624	11.116	64919	28	16.626	18.645
64633	33	2.988	13.383	64705	19	14.590	22.994		64848	20	4.764	11.932	64920	8	18.694	18.962
64634	32	3.482	13.175	64706	38	17.909	22.239		64849*	50	5.740	11.709	64921	10	20.720	18.644
64635	23	10.036	13.580	64707	11	21.406	22.561		64850	12	17.601	11.868	64922	18	22.730	18.476
64636	32	21.868	13.716	64708	23	24.947	22.742		64851	15	20.126	11.101	64923	10	23.702	18.444
64637	19	22.037	13.174	64709	10	3.308	23.974		64852	8	20.693	11.900	64924	28	2.278	19.852
64638	11	4.727	14.456	64710	36	5.152	23.218		64853	8	21.080	11.553	64925	17	5.410	19.707
64639*	56	7.853	14.177	64711*	52	6.452	23.494		64854	8	21.926	11.406	64926	34	6.406	19.408
64640	31	15.299	14.618	64712	18	16.176	23.348		64855	18	25.292	11.425	64927	13	8.036	19.139
64641	13	21.576	14.642	64713	18	17.183	23.816		64856	22	2.530	12.038	64928	17	11.384	19.876
64642*	55	1.435	15.976	64714	10	17.500	23.622		64857	22	10.378	12.050	64929	8	15.242	19.388
64643	28	3.440	15.508	64715	18	17.736	23.618		64858	9	10.483	12.551	64930*	52	19.100	19.788
64644	30	5.754	15.788	64716	33	19.540	23.808		64859	16	11.014	12.342	64931	17	19.496	19.389
64645	20	10.160	15.999	64717	12	25.166	23.554		64860	22	13.178	12.092	64932	18	19.500	19.688
64646	11	11.572	15.876	64718	49	25.531	23.738		64861	26	14.449	12.989	64933	10	20.574	19.830
64647	13	12.587	15.728	64719	35	0.625	24.970		64862	16	17.370	12.044	64934	18	23.160	19.572
64648	14	13.508	15.618	64720	26	5.172	24.252		64863	15	18.116	12.665	64935	41	25.824	19.303
64649	21	24.506	15.212	64721	21	6.459	24.160		64864	28	18.564	12.283	64936	10	0.024	20.218
64650	40	24.589	15.000	64722	13	7.964	24.719		64865	18	23.113	12.246	64937	8	2.339	20.611
64651	17	25.648	15.455	64723	12	11.784	24.866		64866	16	0.044	13.388	64938	37	8.643	20.210
64652	39	2.319	16.667	64724	11	16.043	24.290		64867	13	0.919	13.752	64939	9	8.750	20.492
64653	42	6.939	16.495	64725	12	23.687	24.794		64868	14	2.246	13.128	64940	35	9.682	20.247
64654	38	7.195	16.511	64726	11	24.769	24.142		64869	13	3.988	13.798	64941*	42	14.779	20.020
64655*	51	7.679	16.398	64727	25	5.186	25.352		64870*	39	8.696	13.210	64942	23	16.587	20.946
64656	10	8.456	16.650	64728	27	12.370	25.365		64871	9	12.566	13.426	64943*	41	19.918	20.552
64657	19	13.003	16.310	64729	22	16.000	25.962		64872	8	12.940	13.394	64944	8	0.295	21.283
64658	12	17.206	16.992	64730	14	21.634	25.449		64873	12	15.033	13.756	64945	31	6.758	21.602
64659*	58	17.448	16.242	64731	15	22.458	25.141		64874	8	15.630	13.078	64946	11	8.263	21.623
64660	12	18.201	16.728	64732	31	22.869	25.582		64875	14	18.187	13.724	64947	12	14.104	21.601
64661	26	19.090	16.747	64733	21	23.602	25.288		64876*	80	18.582	13.568	64948	8	14.746	21.689
64662	30	19.430	16.049	64734	53	25.021	25.200		64877*	40	18.744	13.889	64949	8	15.364	21.438

64950	20	15.995	21.673	65009	18	2.456	2.892	65081	19	6.653	15.266	65256	16	10.124	8.270
64951	8	18.104	21.492	65010	12	6.443	2.869	65082	15	7.116	15.464	65257	10	15.461	8.512
64952	18	20.354	21.856	65011	21	7.234	2.137	65083	25	11.470	15.430	65258	9	15.906	8.470
64953	21	3.036	22.934	65012	22	9.208	2.282	65084	10	16.172	15.800	65259	36	16.910	8.339
64954	17	4.094	22.096	65013*	49	10.238	2.990	65085	28	1.856	16.626	65260	19	18.848	8.590
64955	9	6.098	22.048	65014	14	4.159	3.139	65086	26	5.488	16.261	65261	23	20.680	8.684
64956	8	6.167	22.952	65015	13	7.960	3.653	65087*	52	5.871	16.610	65262	27	21.268	8.724
64957	32	6.433	22.008	65016*	34	9.104	3.219	65088	32	7.471	16.076	65263*	100	23.755	8.000
64958*	54	8.964	22.098	65017	12	12.552	3.948	65089	26	16.153	16.476	65264	32	25.122	8.030
64959	18	11.372	22.101	65018	12	16.320	3.577	65090	14	17.354	16.066	65265	38	1.074	9.000
64960	12	12.131	22.178	65019	30	21.064	3.041	65091	17	24.540	16.866	65266	14	1.456	9.949
64961	8	13.486	22.106	65020	22	5.460	4.769	65092	14	0.448	17.010	65267	9	2.040	9.504
64962	26	15.364	22.116	65021	22	9.751	4.240	65093	10	3.594	17.268	65268	18	4.700	9.656
64963*	58	16.059	22.170	65022	16	20.634	4.622	65094	18	7.366	17.590	65269	9	7.655	9.326
64964	12	21.132	22.067	65023	25	0.927	5.700	65095*	46	12.600	17.120	65270	42	8.660	9.426
64965	8	21.727	22.776	65024	20	6.732	5.442	65096	15	14.139	17.536	65271	8	13.059	9.978
64966	10	3.260	23.744	65025	14	8.955	5.982	65097	29	20.954	17.834	65272	9	14.358	9.230
64967*	44	3.624	23.927	65026	19	11.457	5.300	65098	15	22.994	17.370	65273	13	18.522	9.712
64968	12	6.594	23.296	65027	12	15.987	5.340	65099	14	25.290	17.784	65274	32	22.950	9.545
64969	24	7.962	23.668	65028	17	16.820	5.788	65100	15	0.377	18.370	65275	15	24.400	9.640
64970	10	8.706	23.490	65029	15	18.487	5.992	65101	24	13.554	18.631	65276	8	1.046	10.918
64971	31	14.426	23.266	65030	30	19.564	5.535	65102	19	17.836	18.210	65277	14	6.584	10.050
64972	26	15.302	23.606	65031	14	20.399	5.740	65103	15	19.662	18.256	65278	29	6.690	10.798
64973	10	17.680	23.072	65032	50	0.289	6.984	65104	26	21.804	18.300	65279	13	9.119	10.656
64974	8	21.181	23.392	65033	18	20.227	6.048	65105	20	0.820	19.458	65280	8	9.758	10.952
64975*	30	23.978	23.544	65034*	36	24.254	6.558	65106*	45	3.481	19.160	65281	10	10.087	10.816
64976	13	2.868	24.334	65035	16	2.264	7.216	65107	29	11.074	19.152	65282	13	16.570	10.380
64977	10	2.930	24.764	65036*	41	15.346	7.380	65108	14	11.872	19.530	65283*	60	17.392	10.830
64978	8	3.162	24.896	65037	32	3.826	8.360	65109*	47	14.484	19.398	65284	12	17.810	10.660
64979	21	17.188	24.692	65038	19	5.070	8.050	65110	12	18.245	19.477	65285	40	21.418	10.498
64980	31	19.686	24.467	65039	20	9.463	8.262	65111	14	24.377	19.824	65286	18	24.486	10.576
64981	8	21.732	24.674	65040*	54	12.471	8.940	65112	23	12.216	20.022	65287	8	0.924	11.852
64982	13	0.567	25.352	65041	10	15.780	8.574	65113	12	21.791	20.166	65288	9	6.720	11.879
64983	24	0.982	25.794	65042	18	18.372	8.984	65114	12	22.218	20.110	65289	28	8.368	11.472
64984	15	1.714	25.492	65043	30	23.241	8.889	65115	23	3.982	21.693	65290	9	9.892	11.960
64985*	56	3.124	25.393	65044	29	24.856	8.256	65116	13	4.198	21.826	65291	14	10.650	11.400
64986	8	4.134	25.421	65045	15	0.064	9.024	65117	48	8.230	21.871	65292	30	15.408	11.455
64987	16	6.553	25.501	65046	20	0.636	9.312	65118	27	9.209	21.785	65293	37	18.071	11.639
64988	10	19.423	25.471	65047	10	1.590	9.233	65119	32	13.474	21.793	65294	17	18.180	11.764
64989	8	20.399	25.858	65048	19	4.210	9.312	65120	22	21.113	21.950	65295	22	20.959	11.020
				65049	13	11.620	9.610	65121	22	23.686	21.156	65296	23	25.990	11.610
				65050	19	13.260	9.931	65122	20	4.198	22.818	65297	46	3.722	12.926
				65051	10	15.327	9.529	65123	26	5.100	22.039	65298	10	11.270	12.954
				65052*	37	18.037	9.864	65124	18	6.926	22.076	65299	18	16.646	12.650
				65053	13	23.610	9.840	65125	18	16.631	22.610	65300	12	17.237	12.692
				65054	27	4.105	10.492	65126	12	24.308	22.426	65301	22	20.100	12.068
				65055	19	10.429	10.792	65127*	39	1.685	23.426	65302	24	2.116	13.456
				65056*	40	14.147	10.260	65128	14	7.304	23.984	65303	13	3.598	13.295
				65057	20	2.862	11.288	65129	19	10.770	23.680	65304	12	6.877	13.840
				65058	10	4.234	11.965	65130	14	14.242	23.784	65305	13	10.273	13.679
				65059	11	4.566	11.540	65131*	44	20.466	23.022	65306	8	10.369	13.962
				65060	14	20.064	11.296	65132	17	23.503	23.794	65307	36	11.140	13.982
				65061	13	0.690	12.134	65133	20	25.086	23.220	65308	14	11.801	13.702
				65062	10	5.678	12.330	65134	48	25.542	23.026	65309	28	13.108	13.830
				65063	10	12.936	12.420	65135	12	6.775	24.028	65310	11	17.160	13.622
				65064	32	17.560	12.529	65136	12	10.304	24.686	65311	13	18.290	13.909
				65065	19	17.960	12.984	65137	18	20.080	24.528	65312	33	18.342	13.043
				65066	37	25.836	12.850	65138	30	20.934	24.666	65313	8	20.385	13.212
				65067	22	2.518	13.124	65139	28	22.626	24.464	65314	11	20.882	13.664
				65068	11	14.820	13.034	65140	64	0.348	25.906	65315	12	0.670	14.048
				65069	14	15.754	13.330	65141	13	9.030	25.426	65316	29	2.536	14.392
				65070	10	22.770	13.932	65142	31	12.556	25.633	65317	32	7.023	14.063
				65071	14	24.218	13.358	65143	25	12.946	25.448	65318	35	7.030	14.062
				65072	11	25.702	13.219	65144	15	13.924	25.998	65319	13	8.885	14.770
				65073	13	8.226	14.148	65145	14	15.218	25.568	65320	10	9.126	14.914
				65074	18	15.811	14.205	65146	15	18.260	25.844	65321	28	9.672	14.210
				65075	15	19.774	14.849	65147	17	18.365	25.388	65322	23	15.750	14.528
				65076	17	20.324	14.924	65148	16	22.280	25.087	65323	25	16.612	14.057
				65077	22	20.596	14.519	65149	29	22.600	25.419	65324	13	16.900	14.568
				65078	19	24.628	14.300					65325	33	17.399	14.248
				65079	25	4.431	15.660					65326	15	19.497	14.961
				65080	12	6.390	15.281					65327*	80	4.058	15.234

R.A. 22^h 56^m

Plate 816; 1916 Nov. 19.

Provisional Constants.

A B C
 -0.2561 +.00530 +.1043
 D E F
 -.00559 -.02560 -.1081

Mag. = 17.6 - 1.05√d

No.	d	x	y
65201	12	2.410	0.340
65202	45	5.218	0.720
65203*	95	8.498	0.008
65204	10	9.630	0.614
65205	16	11.514	0.660
65206	16	12.540	0.101
65207	25	19.262	0.104
65208	8	25.138	0.247
65209	10	0.770	1.580
65210*	80	2.314	1.676
65211*	84	5.920	1.789
65212	29	11.292	1.640
65213	21	12.020	1.946
65214*	58	14.525	1.700
65215	34	19.522	1.976
65216	38	25.732	1.782
65217	29	7.427	2.138
65218	8	10.960	2.033
65219	18	16.822	2.863
65220	11	24.349	2.299
65221	12	0.239	3.605
65222	10	0.409	3.440
65223	40	4.860	3.863
65224	10	5.052	3.878
65225*	53	5.822	3.241
65226	28	9.266	3.156
65227	8	16.316	3.378
65228	32	20.410	3.942
65229	12	1.686	4.656
65230	17	7.903	4.387
65231	10	15.045	4.720
65232	34	22.136	4.290
65233	13	23.984	4.310
65234	13	1.630	5.491
65235*	46	6.616	5.850
65236	10	11.130	5.246
65237	23	11.534	5.378
65238*	72	11.570	5.691
65239	25	20.368	5.534
65240	21	20.768	5.638
65241	30	23.938	5.460
65242*	100	24.169	5.890
65243*	44	2.058	6.656
65244	29	10.115	6.844
65245	9	16.760	6.810
65246	10	18.025	6.314
65247	12	19.610	6.166
65248	16	22.837	6.333
65249	26	16.439	7.220
65250	9	17.250	7.066
65251	30	20.566	7.900
65252	12	22.592	7.480
65253*	40	2.684	8.344
65254*	80	6.950	8.980
65255	38	6.976	8.470

65328	29	4.270	15.374	65400	15	1.540	23.897	65466	11	11.782	3.038	65538	23	7.069	18.256	65616	24	5.672	4.088
65329	9	8.050	15.496	65401	27	3.116	23.302	65467	23	15.409	3.447	65539	21	9.459	18.592	65617	8	5.885	4.075
65330	48	13.395	15.940	65402*	64	3.564	23.110	65468	10	17.046	3.004	65540	20	16.267	18.423	65618*	43	8.448	5.602
65331	38	14.166	15.874	65403*	75	4.236	23.401	65469	31	21.036	3.574	65541	21	0.340	19.006	65619	38	16.300	5.904
65332	25	14.468	15.700	65404	12	11.186	23.560	65470	37	22.400	3.628	65542	24	10.136	19.984	65620	20	16.890	5.834
65333	21	2.484	16.960	65405	9	14.360	23.720	65471	26	5.951	4.659	65543	17	16.272	19.003	65621	32	20.152	5.356
65334	9	4.531	16.467	65406	14	16.429	23.138	65472*	45	9.835	4.315	65544	31	20.064	19.590	65622	39	21.336	5.838
65335	13	5.410	16.140	65407	38	17.379	23.382	65473	16	15.158	4.388	65545	13	10.650	20.275	65623*	56	24.842	5.552
65336	28	5.515	16.208	65408	10	17.672	23.124	65474	23	21.050	4.586	65546	21	16.898	20.440	65624	21	1.804	6.980
65337	10	8.135	16.820	65409*	60	17.888	23.780	65475	20	1.342	5.622	65547	14	3.559	20.956	65625	35	1.986	6.926
65338	25	9.072	16.542	65410	38	18.926	23.077	65476	23	5.800	5.339	65548	20	4.919	20.933	65626*	44	2.904	6.190
65339	26	17.360	16.480	65411	54	23.677	23.026	65477	21	10.291	5.429	65549	26	6.982	20.969	65627*	64	4.598	6.010
65340	12	22.148	16.896	65412	67	24.985	23.023	65478	15	15.548	5.739	65550	22	7.038	20.246	65628	8	9.754	6.446
65341	22	23.642	16.701	65413	10	25.064	23.367	65479	32	20.416	5.857	65551	24	10.166	20.740	65629	28	11.650	6.391
65342	24	24.573	16.010	65414	38	0.674	24.580	65480*	64	1.566	6.054	65552	16	22.484	21.594	65630	39	16.164	6.672
65343	13	0.940	17.483	65415	12	3.890	24.113	65481	12	17.352	6.747	65553	14	7.224	22.472	65631	29	0.371	7.466
65344	22	3.244	17.866	65416	10	4.508	24.340	65482*	40	19.288	6.146	65554	18	14.330	22.229	65632	30	4.928	7.880
65345	10	5.248	17.190	65417	8	7.049	24.972	65483	42	24.853	6.448	65555*	34	19.050	22.477	65633	22	5.538	7.807
65346	28	8.414	17.628	65418	10	8.832	24.260	65484	20	3.424	7.977	65556	23	22.745	22.278	65634	26	6.892	7.976
65347	19	9.380	17.395	65419	55	9.613	24.439	65485	24	9.061	7.587	65557	40	1.136	23.186	65635	23	15.144	7.234
65348	22	13.012	17.014	65420*	65	15.110	24.244	65486*	42	9.696	7.919	65558*	42	2.440	23.177	65636	38	18.695	7.476
65349	10	16.622	17.645	65421	21	16.680	24.888	65487	20	12.843	7.792	65559	23	4.316	23.028	65637	11	1.516	8.120
65350	13	18.208	17.694	65422	38	17.070	24.468	65488	20	12.864	7.437	65560	16	5.890	23.289	65638	35	5.424	8.303
65351	21	18.372	17.672	65423	24	19.150	24.980	65489	17	22.296	7.678	65561	20	9.064	23.110	65639	22	12.862	8.794
65352	15	19.710	17.810	65424	18	0.338	25.209	65490	13	22.784	7.228	65562	20	18.924	23.786	65640	20	2.072	9.759
65353	16	20.064	17.760	65425	46	0.660	25.534	65491	17	23.738	7.217	65563	11	19.134	23.199	65641	34	12.494	9.404
65354	53	22.012	17.704	65426	12	1.640	25.712	65492	25	23.922	7.165	65564	13	19.950	23.465	65642	10	13.827	9.972
65355	10	3.386	18.724	65427	56	5.902	25.933	65493*	66	1.159	8.160	65565*	60	23.538	23.364	65643	8	18.275	9.478
65356	31	10.851	18.407	65428	21	12.364	25.925	65494	21	2.533	8.186	65566	12	11.558	24.247	65644	8	18.936	9.184
65357	10	12.396	18.642	65429*	110	16.526	25.116	65495	11	7.161	8.294	65567*	40	19.950	24.874	65645	39	21.810	9.539
65358	12	14.310	18.820	65430	26	18.562	25.971	65496	19	8.144	8.718	65568	36	22.475	24.487	65646	8	22.824	9.523
65359	46	15.240	18.030	65431	10	19.467	25.924	65497*	34	21.166	8.681	65569	40	5.900	25.616	65647	21	24.756	9.868
65360	10	15.341	18.504	65432	10	21.730	25.200	65498	12	23.430	8.348	65570	31	23.240	25.082	65648	20	25.420	9.446
65361	30	17.372	18.550					65499	24	0.364	9.710					65649	11	3.085	10.326
65362	10	19.868	18.857					65500	12	1.822	9.802					65650	8	9.154	10.465
65363	27	22.762	18.504					65501	21	17.686	9.890					65651*	47	11.758	10.341
65364	18	22.892	18.842					65502	14	1.906	10.735					65652	8	24.704	10.334
65365	12	23.644	18.353					65503	21	6.543	10.658					65653*	45	2.442	11.416
65366	14	2.362	19.918					65504	16	12.473	10.393					65654	34	3.407	11.670
65367	10	3.278	19.720					65505	20	17.063	10.307					65655*	43	4.740	11.492
65368	13	6.854	19.720					65506	16	18.348	10.816					65656	21	12.734	11.228
65369	36	12.140	19.868					65507	13	23.952	10.000					65657	18	13.725	11.924
65370	17	15.728	19.270					65508	20	3.414	11.764					65658	14	22.244	11.144
65371	41	19.126	19.218					65509	11	19.278	11.981					65659	34	3.306	12.574
65372	10	23.402	19.078					65510*	39	21.198	11.460					65660	17	10.166	12.627
65373	11	25.593	19.820					65511*	30	21.714	11.084					65661	14	19.377	12.818
65374	40	4.241	20.908					65512*	39	24.292	11.664					65662	36	25.978	12.166
65375	10	6.438	20.980					65513	21	25.250	11.934					65663	11	10.206	13.078
65376	29	7.582	20.400					65514	16	3.975	12.219					65664	17	13.686	13.666
65377	26	8.816	20.561					65515*	41	11.419	12.310					65665	21	13.994	13.258
65378	43	11.152	20.164					65516*	36	14.778	12.504					65666	38	22.918	13.050
65379	10	12.665	20.030					65517	24	25.130	12.838					65667*	46	23.226	13.860
65380	25	15.700	20.620					65518	19	9.624	13.849					65668*	48	24.406	13.048
65381	28	18.187	20.670					65519	20	10.861	13.080					65669	14	2.400	14.640
65382	10	21.394	20.818					65520*	37	14.125	13.598					65670	15	2.440	14.625
65383	25	1.685	21.260					65521	20	16.144	13.037					65671	8	9.770	14.390
65384	38	4.308	21.615					65522*	46	16.390	13.852					65672	15	13.045	14.264
65385	20	6.870	21.394					65523	13	10.117	14.676					65673	38	19.178	14.053
65386	14	10.640	21.710					65524*	43	15.230	14.768					65674	12	5.118	15.464
65387*	55	14.020	21.278					65525	19	17.886	14.742					65675*	46	10.091	15.667
65388	33	21.797	21.580					65526	18	24.188	14.886					65676	17	13.800	15.364
65389	46	21.888	21.718					65527	14	24.229	14.873					65677	15	15.667	15.798
65390	12	2.325	22.518					65528	25	9.737	15.716					65678	36	21.526	15.570
65391	10	5.927	22.540					65529	14	9.966	15.814					65679	33	21.706	15.284
65392	12	6.480	22.250					65530	23	17.197	15.770					65680	21	22.546	15.860
65393	23	6.855	22.181					65531	22	20.739	15.449					65681	9	0.830	16.386
65394	18	8.362	22.800					65532	19	1.084	16.864					65682	41	0.708	17.219
65395	17	11.021	22.400					65533	10	15.478	16.562					65683	41	11.632	17.865
65396	19	12.510	22.392					65534	23	7.380	17.741					65684	28	15.656	17.406
65397*	61	13.291	22.356					65535	28	18.570	17.954					65685	31	15.954	17.087
65398	8	14.940	22.650																

65688	12	23.768	18.364	65755	32	7.426	1.659	65827*	41	12.266	14.556	65908	14	10.985	2.063	65980	32	8.806	12.758
65689	8	4.614	19.542	65756	16	8.408	1.365	65828	14	15.632	14.734	65909	23	11.294	2.612	65981	19	8.866	12.068
65690	14	16.028	19.920	65757	33	14.213	2.919	65829*	32	18.591	14.139	65910	25	12.150	2.438	65982	21	14.394	12.789
65691*	78	18.925	19.594	65758	15	16.136	2.624	65830	13	22.282	14.266	65911	27	14.025	2.974	65983	25	14.764	12.776
65692	35	23.774	19.446	65759	9	25.601	2.185	65831*	10	23.402	14.078	65912	12	14.342	2.364	65984	14	19.024	12.565
65693	9	3.435	20.936	65760*	53	2.102	3.640	65832	12	25.793	14.550	65913*	65	18.980	2.539	65985	10	3.055	13.524
65694	21	6.778	20.338	65761	33	2.744	3.482	65833	10	2.583	15.946	65914	14	7.852	3.244	65986	11	5.239	13.354
65695	10	9.784	20.498	65762*	39	3.258	3.809	65834*	42	9.480	15.418	65915	32	12.036	3.858	65987	25	10.206	13.525
65696	9	12.380	20.462	65763	8	22.433	3.707	65835	8	8.706	16.041	65916	12	12.818	3.526	65988	12	12.820	13.614
65697*	58	12.654	20.659	65764	9	11.826	3.160	65836*	62	8.892	16.470	65917	18	20.827	3.702	65989*	58	23.416	13.965
65698	15	17.532	20.874	65765	33	15.951	4.988	65837	8	9.290	16.937	65918*	36	2.607	4.622	65990	18	0.144	14.702
65699	13	19.230	20.465	65766	17	19.776	4.422	65838	16	10.319	18.156	65919	21	5.498	4.623	65991	21	0.658	14.178
65700	23	4.836	21.194	65767*	30	24.912	4.232	65839	27	18.168	18.054	65920	12	7.707	4.512	65992	9	9.294	14.842
65701	8	4.965	21.503	65768*	48	2.252	5.828	65840	28	19.470	18.602	65921	23	11.363	4.532	65993	58	11.081	14.655
65702	8	14.326	21.595	65769	15	6.914	5.382	65841	12	21.024	18.568	65922	23	21.410	4.621	65994	20	12.100	14.160
65703	40	17.942	21.169	65770	27	9.819	5.730	65842	23	1.325	19.728	65923	13	22.403	4.960	65995*	48	12.894	14.817
65704	9	21.362	21.636	65771	13	10.528	6.388	65843	12	18.134	19.632	65924	21	23.305	4.082	65996	20	16.370	14.443
65705	8	23.210	21.938	65772	30	12.346	6.034	65844	31	23.402	19.992	65925	25	7.564	5.988	65997	19	16.738	14.454
65706	9	24.609	21.140	65773	10	13.460	6.411	65845	25	11.878	20.367	65926*	47	11.508	5.620	65998	18	24.500	14.047
65707	24	1.096	22.056	65774	31	14.078	6.138	65846*	45	12.600	20.032	65927*	43	16.967	5.582	65999	22	4.254	15.650
65708	10	13.927	22.064	65775	28	14.162	6.178	65847	27	15.019	20.290	65928*	56	18.755	5.874	66000*	50	17.169	15.750
65709	13	16.188	22.692	65776	26	5.266	7.774	65848	22	17.553	20.042	65929	22	24.524	5.348	66001	11	0.348	16.938
65710	29	16.845	22.890	65777	8	6.236	7.786	65849	8	3.346	21.685	65930	13	1.354	6.884	66002	14	0.625	16.508
65711	12	19.814	22.887	65778	33	10.030	7.740	65850	12	20.802	21.119	65931	10	22.708	6.283	66003	11	0.930	16.254
65712	36	20.069	22.819	65779	19	20.384	7.408	65851	11	20.877	21.186	65932*	44	24.450	6.157	66004	17	2.120	16.803
65713	34	20.437	22.010	65780	31	22.011	7.036	65852	32	0.648	23.612	65933	13	24.510	6.476	66005	27	9.020	16.277
65714*	79	1.907	23.127	65781*	34	4.470	8.335	65853	25	9.052	23.678	65934	13	25.956	6.854	66006	34	11.116	16.842
65715	21	5.321	23.568	65782	11	17.780	8.316	65854	21	11.552	23.794	65935	15	2.271	7.970	66007	62	11.436	16.980
65716	27	12.506	23.476	65783	21	19.076	8.912	65855	10	12.278	23.908	65936	12	2.400	7.786	66008	12	14.068	16.958
65717	26	15.938	23.645	65784	16	23.400	8.152	65856	13	20.308	23.788	65937	18	8.166	7.376	66009	14	20.076	16.280
65718	14	16.415	23.934	65785	12	2.876	9.712	65857	30	21.884	23.394	65938	21	8.446	7.711	66010	20	21.446	16.389
65719*	46	16.549	23.288	65786	30	4.416	9.364	65858	10	9.356	24.172	65939	23	9.916	7.260	66011	15	21.786	16.634
65720	32	18.237	23.200	65787	14	4.726	9.152	65859	20	10.764	24.534	65940	14	11.852	7.316	66012	27	22.898	16.278
65721	40	23.056	23.325	65788	9	4.788	9.679	65860	9	21.932	24.554	65941	14	12.060	7.550	66013	12	8.660	17.338
65722	39	0.868	24.270	65789	11	5.842	9.884	65861	10	21.960	24.606	65942	13	13.822	7.158	66014	29	8.862	17.134
65723	38	1.644	24.850	65790*	38	5.914	9.334	65862*	39	25.274	24.938	65943*	63	16.586	7.392	66015	11	9.366	17.680
65724	8	7.937	24.430	65791	12	10.675	9.592	65863*	64	0.792	25.352	65944	18	24.596	7.512	66016*	41	15.390	17.887
65725	8	14.662	24.986	65792	32	20.067	9.746	65864	10	3.282	25.306	65945	20	1.162	8.574	66017	41	21.775	17.835
65726	44	19.130	24.012	65793	26	21.172	9.212	65865	30	17.200	25.618	65946	12	10.800	8.686	66018	26	22.759	17.128
65727	20	24.583	24.654	65794	13	0.534	10.926	65866	25	21.216	25.576	65947	11	11.841	8.590	66019	27	23.904	17.926
65728	10	24.652	24.616	65795	11	1.115	10.940	65867	25	25.736	25.900	65948	17	12.136	8.046	66020	12	5.948	18.651
65729	10	11.264	25.815	65796	13	2.216	10.140					65949*	45	16.122	8.760	66021*	51	6.499	18.620
65730	30	12.084	25.826	65797	8	6.628	10.297					65950	12	18.903	8.166	66022	39	12.502	18.135
65731	8	13.964	25.649	65798*	33	10.346	10.960					65951*	48	23.963	8.050	66023	20	25.820	18.966
65732	11	14.601	25.458	65799	10	12.884	10.410					65952	13	3.031	9.812	66024	12	2.056	19.616
65733	61	19.094	25.200	65800	32	13.184	10.559					65953	24	5.890	9.563	66025	20	3.195	19.302
65734	80	23.186	25.064	65801	30	13.190	10.464					65954	14	6.102	9.520	66026	28	5.170	19.717
				65802	32	19.310	10.183					65955	11	7.382	9.980	66027	16	10.806	19.870
				65803	12	19.363	10.699					65956	17	8.046	9.420	66028	13	11.202	19.280
				65804	19	19.514	10.570					65957*	39	9.996	9.642	66029*	55	11.846	19.782
				65805*	39	25.539	10.358					65958	13	10.406	9.838	66030	24	12.690	19.947
				65806	14	0.608	11.149					65959	21	12.474	9.954	66031	28	14.491	19.416
				65807	11	5.117	11.683					65960	14	13.597	9.243	66032	11	20.374	19.920
				65808	10	7.912	11.646					65961	12	21.512	9.980	66033	13	20.987	19.574
				65809	19	8.400	11.136					65962	11	1.462	10.642	66034	20	0.934	20.014
				65810	8	8.651	11.514					65963*	44	3.334	10.742	66035	41	1.349	20.410
				65811	21	8.928	11.320					65964	22	4.096	10.863	66036	11	4.350	20.315
				65812	12	10.402	11.667					65965	24	4.117	10.880	66037	32	4.841	20.774
				65813	16	11.913	11.576					65966	14	5.670	10.200	66038	19	9.138	20.944
				65814	9	17.321	11.370					65967	23	9.307	10.494	66039	20	19.683	20.088
				65815	22	22.256	11.672					65968	27	14.018	10.830	66040	14	7.053	21.497
				65816	30	3.456	12.425					65969	13	15.030	10.442	66041	25	7.344	21.338
				65817	20	7.746	12.846					65970	25	15.520	10.884	66042	10	12.144	21.420
				65818	16	13.057	12.750					65971*	44	22.534	10.171	66043	21	12.315	21.650
				65819	30	0.408	13.340					65972	18	5.850	11.401	66044	13	20.835	21.856
				65820*	42	1.892	13.326					65973	11	9.504	11.976	66045	22	10.846	22.166
				65821	12	4.867	13.776					65974	20	18.192	11.533	66046	17	11.570	22.676
				65822	33	8.670	13.												

66052	13	11.108	23.962	66134	26	20.520	6.669	66206	28	13.558	22.733	66274	8	7.280	2.778	66346	15	15.216	11.636
66053	17	13.095	23.944	66135*	73	1.700	7.942	66207	26	20.980	22.430	66275	12	7.856	2.124	66347*	43	15.810	11.639
66054	40	13.825	23.610	66136	20	2.340	7.400	66208*	155	21.122	22.213	66276	13	8.946	2.344	66348	8	20.390	11.474
66055*	33	15.732	23.722	66137*	49	8.690	7.729	66209	30	22.408	22.570	66277	37	9.865	2.296	66349*	42	21.378	11.982
66056	16	11.650	24.618	66138	10	13.152	7.644	66210	31	24.353	22.118	66278	9	10.784	2.003	66350	22	22.104	11.284
66057	17	13.663	24.854	66139	27	20.339	7.807	66211	9	3.706	23.900	66279	9	11.076	2.551	66351	13	23.236	11.360
66058	17	15.837	24.543	66140	10	6.800	8.304	66212	12	6.139	23.296	66280	10	15.346	2.854	66352	8	23.608	11.798
66059	14	18.823	24.774	66141	33	15.355	8.017	66213	28	6.860	23.462	66281	21	19.660	2.793	66353	8	1.050	12.664
66060	12	25.950	24.012	66142	32	15.747	8.057	66214	24	8.971	23.668	66282	10	19.720	2.927	66354	8	1.665	12.506
66061*	50	3.306	25.322	66143	10	21.700	8.248	66215	29	13.288	23.852	66283	17	23.965	2.144	66355	11	6.272	12.260
66062	35	10.378	25.920	66144	13	25.178	8.512	66216	18	13.952	23.392	66284	10	1.464	3.648	66356	13	16.611	12.455
66063	22	10.892	25.141	66145	10	25.674	8.440	66217	24	14.995	23.566	66285	35	3.885	3.277	66357	8	16.824	12.255
66064	15	17.954	25.565	66146	19	7.150	9.838	66218	19	20.894	23.484	66286	12	6.028	3.492	66358*	34	17.798	12.062
66065	60	18.378	25.814	66147	51	16.466	9.050	66219	28	0.916	24.897	66287	21	8.422	3.203	66359	11	19.657	12.632
66066	27	23.158	25.005	66148	31	18.688	9.004	66220	11	6.116	24.362	66288	9	9.355	3.027	66360	11	3.845	13.406
				66149	14	24.949	9.148	66221	11	6.193	24.154	66289*	60	10.120	3.699	66361	10	3.878	13.782
				66150	57	0.274	10.065	66222	12	9.680	24.266	66290	35	10.434	3.528	66362	11	4.870	13.324
				66151	20	14.366	10.082	66223	11	17.320	24.950	66291	10	11.763	3.683	66363	10	10.488	13.754
				66152	13	18.620	10.856	66224	18	20.744	24.160	66292	10	16.834	3.821	66364	10	19.721	13.838
				66153	9	1.398	11.700	66225	24	25.130	24.122	66293*	49	23.204	3.935	66365	8	20.833	13.082
				66154	25	5.672	11.250	66226	23	7.336	25.010	66294	10	7.099	4.196	66366	8	1.106	14.135
				66155	17	8.438	11.398	66227	12	7.360	25.010	66295	8	7.182	4.157	66367	10	8.725	14.658
				66156	36	15.340	11.674	66228	16	9.949	25.423	66296	10	7.238	4.886	66368	17	13.190	14.210
				66157	18	16.454	11.295	66229	13	13.025	25.288	66297	24	7.298	4.878	66369	25	22.858	14.587
				66158	27	17.278	11.926	66230	54	13.344	25.282	66298	10	13.393	4.160	66370	12	2.760	15.196
				66159	13	5.552	12.830					66299	40	4.721	5.247	66371	10	3.926	15.180
				66160	32	8.270	12.380					66300	10	6.539	5.628	66372	10	5.516	15.787
				66161	27	8.633	12.552					66301	14	7.436	5.130	66373	8	12.264	15.390
				66162	15	16.752	12.211					66302	13	9.339	5.036	66374	23	15.503	15.073
				66163*	75	1.158	13.856					66303*	38	20.158	5.836	66375	8	20.924	15.244
				66164	11	4.625	13.300					66304	10	25.544	5.054	66376	20	25.234	15.350
				66165*	60	12.442	13.421					66305	22	3.848	6.820	66377	15	3.152	16.002
				66166	24	14.670	13.221					66306	14	6.240	6.703	66378	31	3.832	16.637
				66167	13	11.045	14.527					66307	12	13.511	6.086	66379	10	8.140	16.764
				66168	40	22.082	14.398					66308	10	15.430	6.758	66380	28	14.469	16.415
				66169	30	4.920	15.768					66309	10	16.621	6.646	66381	15	14.966	16.162
				66170	15	9.628	15.986					66310	8	18.668	6.662	66382	17	16.240	16.012
				66171	11	21.284	15.114					66311	11	2.257	7.270	66383	12	18.143	16.100
				66172	12	24.840	15.236					66312	10	4.450	7.822	66384	10	21.234	16.245
				66173	31	0.648	16.170					66313	10	5.051	7.102	66385	10	22.058	16.567
				66174	12	4.156	16.064					66314	20	10.117	7.020	66386	10	23.798	16.360
				66175*	75	7.568	16.517					66315	8	19.153	7.523	66387	10	25.357	16.732
				66176*	150	14.353	16.808					66316	20	21.091	7.437	66388	12	25.928	16.886
				66177	83	14.392	16.414					66317*	40	4.285	8.830	66389	40	0.414	17.646
				66178	23	25.224	16.046					66318*	38	7.203	8.400	66390	12	9.158	17.754
				66179	49	25.896	16.686					66319	10	15.100	8.318	66391	32	10.726	17.654
				66180	30	0.506	17.024					66320	28	15.118	8.135	66392	8	17.170	17.605
				66181	29	1.654	17.816					66321	9	16.141	8.148	66393	10	18.110	17.010
				66182	30	7.566	17.318					66322	12	18.776	8.930	66394	8	18.757	17.186
				66183	9	11.308	17.662					66323	10	20.411	8.143	66395*	38	19.577	17.374
				66184*	60	22.472	17.664					66324	30	20.642	8.642	66396	13	23.540	17.702
				66185	24	3.573	18.856					66325	8	0.796	9.345	66397	31	0.138	18.043
				66186	20	6.370	18.855					66326	14	2.817	9.108	66398	16	3.325	18.486
				66187	42	22.196	18.056					66327	16	4.966	9.015	66399	21	3.800	18.646
				66188	14	25.374	18.532					66328	20	16.590	9.435	66400	10	5.765	18.746
				66189	26	25.844	18.697					66329	8	20.718	9.086	66401*	47	8.345	18.260
				66190	26	4.476	19.030					66330	22	20.926	9.994	66402	10	9.624	18.116
				66191	22	6.988	19.050					66331	22	25.334	9.044	66403	8	10.192	18.496
				66192*	105	13.842	19.252					66332	10	1.594	10.337	66404	20	15.588	18.312
				66193	11	19.270	19.740					66333	12	6.884	10.744	66405	25	20.374	18.650
				66194	26	21.574	19.428					66334	12	9.370	10.014	66406	9	20.900	18.454
				66195	17	21.585	19.432					66335	20	18.397	10.854	66407	9	2.060	19.236
				66196	29	9.424	20.815					66336	9	18.920	10.104	66408	9	4.192	19.316
				66197	17	10.912	20.742					66337	20	20.660	10.864	66409	13	4.758	19.081
				66198	40	14.666	20.414					66338	9	21.270	10.850	66410	22	6.184	19.236
				66199	20	14.862	20.275					66339	10	4.402	11.286	66411	10	7.900	19.631
				66200	18	17.016	20.820					66340	8	5.126	11.298	66412	20	11.546	19.762
				66201	13	11.182	21.222					66341	8	5.892	11.086	66413	10	14.990	19.333
				66202	10	25.942	21.692					66342	14	8.436	11.215	66414	9	15.587	19.003
				66203	14	0.881	22.850					66343	18	9.300	11.864	66415	8	17.499	19.112
				66204	10	3.602	22.780					66344	8	11.804	11.520	66416	26	17.738	19.536
				66205	32	7.229	22.976					66345	8	14.364	11.205	66417*	58	21.698	19.260

66418	8	3.173	20.270	66476	10	11.188	25.810	66527	8	5.242	3.367	66585	8	3.858	11.502	66643	15	17.924	19.972
66419	16	5.520	20.963	66477	9	11.538	25.064	66528	12	6.330	3.439	66586	11	6.648	11.003	66644	10	18.358	19.533
66420	8	7.376	20.936	66478	27	18.074	25.556	66529	16	7.591	3.100	66587	8	7.681	11.498	66645*	39	21.299	19.032
66421	8	8.545	20.692	66479	8	20.636	25.551	66530	12	9.306	3.170	66588	8	12.091	11.654	66646	8	24.980	19.750
66422	8	9.850	20.316	66480	40	21.924	25.515	66531	19	10.064	3.997	66589	9	14.554	11.861	66647	9	5.224	20.133
66423	10	10.848	20.082	66481	84	22.600	25.544	66532	10	19.288	3.446	66590	10	15.568	11.783	66648	11	10.172	20.168
66424	29	16.576	20.504	66482	8	22.662	25.707	66533	33	19.872	3.281	66591	9	19.297	11.988	66649	13	11.344	20.102
66425	28	21.604	20.566	66483	12	24.266	25.784	66534	8	21.482	3.951	66592	8	20.560	11.329	66650	20	16.362	20.800
66426	14	3.924	21.638					66535*	54	22.215	3.626	66593	8	23.018	11.788	66651	8	16.945	20.295
66427	9	4.552	21.548					66536	10	7.189	4.238	66594	8	23.032	11.590	66652	10	20.398	20.023
66428	11	7.370	21.080					66537	12	11.294	4.966	66595	8	6.918	12.378	66653	30	21.798	20.909
66429	10	9.310	21.049					66538	10	21.385	4.571	66596	10	14.460	12.402	66654	9	1.801	21.060
66430	10	9.824	21.492					66539	8	22.893	4.800	66597	20	16.440	12.430	66655	13	2.022	21.684
66431	8	9.826	21.659					66540	16	25.084	4.034	66598	8	20.875	12.326	66656*	30	3.616	21.440
66432	21	10.452	21.283					66541	12	25.176	4.470	66599	11	5.020	13.631	66657	10	5.576	21.720
66433	12	11.125	21.852					66542	9	3.287	5.026	66600	10	5.952	13.136	66658	13	14.214	21.138
66434	11	12.569	21.026					66543	9	8.928	5.551	66601	14	17.296	13.636	66659	10	17.061	21.436
66435	25	12.945	21.329					66544	19	9.158	5.632	66602	8	21.984	13.377	66660	16	2.717	22.525
66436	34	16.700	21.966					66545	14	9.468	5.175	66603	31	0.744	14.600	66661*	36	2.904	22.049
66437	20	18.386	21.430					66546	10	13.450	5.876	66604	16	5.607	14.182	66662	34	3.716	22.345
66438	8	19.350	21.350					66547	11	22.925	5.794	66605	32	7.296	14.425	66663	25	4.900	22.188
66439*	43	21.812	21.419					66548*	34	23.934	5.152	66606	27	10.020	14.061	66664	10	16.716	22.420
66440	10	23.814	21.064					66549	8	24.812	5.533	66607	21	17.923	14.724	66665	11	23.595	22.710
66441	13	24.023	21.687					66550	9	0.786	6.634	66608	12	23.164	14.266	66666	19	0.744	23.615
66442	34	25.625	21.472					66551	14	6.196	6.166	66609	28	23.440	14.760	66667	20	2.157	23.720
66443	29	0.398	22.554					66552	27	6.250	6.270	66610	9	23.592	14.907	66668	36	3.184	23.279
66444	8	1.420	22.192					66553	10	8.062	6.766	66611	19	3.132	15.326	66669*	54	3.689	23.226
66445	25	2.341	22.085					66554*	40	19.199	6.523	66612	11	10.111	15.470	66670	8	4.190	23.216
66446	39	5.813	22.819					66555	11	22.571	6.790	66613	14	15.703	15.211	66671	14	6.848	23.432
66447*	58	17.382	22.355					66556	13	24.921	6.517	66614	16	19.202	15.667	66672*	34	13.486	23.517
66448	10	17.976	22.541					66557	11	4.694	7.250	66615	9	1.714	16.359	66673	11	15.380	23.901
66449	13	24.703	22.542					66558	25	11.607	7.566	66616	9	3.278	16.706	66674	21	16.728	23.790
66450*	38	24.903	22.066					66559*	30	11.710	7.888	66617	23	7.086	16.559	66675	8	3.049	24.458
66451	40	25.710	22.378					66560	8	13.962	7.053	66618	15	7.116	16.331	66676	21	5.298	24.178
66452	8	6.230	23.114					66561	14	14.540	7.143	66619*	49	8.262	16.907	66677	22	9.694	24.634
66453	9	12.880	23.936					66562*	32	15.242	7.404	66620	24	9.258	16.505	66678	24	14.098	24.116
66454	15	13.666	23.836					66563	27	15.666	7.602	66621	21	9.324	16.466	66679	12	14.316	24.341
66455	8	14.023	23.635					66564	8	23.382	7.730	66622	24	9.451	16.104	66680	10	16.034	24.490
66456*	30	14.953	23.704					66565	13	8.381	8.697	66623	11	15.889	16.020	66681	33	20.146	24.022
66457	11	15.954	23.854					66566	16	9.140	8.746	66624	17	20.292	16.476	66682	14	20.492	24.436
66458	16	16.288	23.536					66567	25	16.976	8.982	66625	25	20.699	16.414	66683*	40	20.546	24.820
66459	10	18.616	23.246					66568	8	19.336	8.434	66626	14	1.474	17.702	66684	76	0.648	25.559
66460	23	19.446	23.314					66569	18	19.443	8.090	66627	8	2.626	17.196	66685	14	2.326	25.775
66461	20	22.716	23.600					66570	24	3.137	9.020	66628*	29	8.673	17.811	66686	24	6.651	25.819
66462	22	24.125	23.732					66571	12	14.248	9.414	66629	8	12.366	17.686	66687	11	10.136	25.910
66463	50	25.168	23.304					66572	8	15.258	9.027	66630	12	13.339	17.770	66688	14	11.116	25.260
66464	64	25.676	23.255					66573	9	16.180	9.417	66631	18	13.922	17.986	66689	10	11.866	25.130
66465	22	3.136	24.080					66574*	31	16.630	9.844	66632	8	14.333	17.646	66690	14	13.588	25.278
66466	10	7.210	24.393					66575	13	25.262	9.348	66633	12	17.154	17.898	66691	43	18.736	25.197
66467	24	8.881	24.780					66576	11	25.920	9.943	66634	12	18.154	17.346	66692	18	19.058	25.332
66468	14	12.123	24.618					66577	10	4.252	10.458	66635	12	19.985	17.962	66693	20	21.944	25.313
66469	16	17.635	24.175					66578	11	7.934	10.194	66636	24	7.453	18.666	66694	23	22.656	25.405
66470	10	17.682	24.038					66579	9	8.653	10.447	66637	17	7.668	18.792	66695	8	24.844	25.256
66471	8	20.240	24.248					66580*	36	11.466	10.330	66638*	39	10.242	18.988	66696	18	25.247	25.077
66472	14	21.972	24.834					66581	8	13.274	10.851	66639	9	24.873	18.062				
66473	20	4.571	25.464					66582	15	16.437	10.706	66640	10	12.120	19.181				
66474	8	8.392	25.302					66583	13	19.944	10.300	66641	13	15.047	19.129				
66475	10	11.159	25.357					66584	12	1.076	11.367	66642	21	15.612	19.478				

R.A. 23^h 52^m

Plate 884 ; 1916 Dec. 13.

Provisional Constants.

A	B	C
-0.2560	+0.0419	+0.3025

D	E	F
-0.0404	-0.2587	-0.2392

Mag. = 15.7 - 1.05√d

No.	d	x	y
66501	21	4.693	0.856
66502	8	5.750	0.400
66503	8	7.023	0.986
66504*	30	11.923	0.074
66505	20	13.398	0.348
66506	22	16.125	0.258
66507	9	24.116	0.339
66508	8	25.060	0.560
66509*	30	1.240	1.190
66510	8	4.358	1.494
66511	11	5.326	1.358
66512	9	6.157	1.970
66513	25	8.530	1.451
66514	25	12.132	1.679
66515	13	12.694	1.912
66516	14	13.151	1.510
66517	22	16.110	1.558
66518	12	20.423	1.452
66519	34	25.878	1.718
66520	16	1.668	2.138
66521	18	11.534	2.689
66522	8	13.655	2.906
66523	13	19.976	2.294
66524	14	21.570	2.552
66525*	39	0.926	3.946
66526	10	4.903	3.449

NIZAMIAH OBSERVATORY, HYDERABAD

ASTROGRAPHIC CATALOGUE, 1900·0

ZONE -18°

STANDARD CO-ORDINATES

OF

THE STARS IN THE CATALOGUES OF THE ASTRONOMISCHE
GESELLSCHAFT (WASHINGTON AND ALGIERS)

EXPLANATION OF THE COLUMNS.

Hyderabad Number.—This is the number assigned in the preceding Catalogue of measures of plates taken at Hyderabad. Some stars occur on two plates, and in this case they have two numbers, thus, Algiers 19 is Hyderabad -18° , 134, and also Hyderabad -18° , 334. Some stars will also occur on plates with centres in -17° or -19° . Occasionally, owing to slight errors of centering the plate, a star will fall outside the réseau and hence will have no number on such a plate, but will occur on an adjacent plate with a Hyderabad number.

Washington or Algiers Number and Magnitude.—These are taken direct from the Washington and Algiers Astronomische Gesellschaft Catalogues; some stars occur in both Catalogues, in such cases only the Algiers number and magnitude are given.

Standard Co-ordinates.—This name was first proposed in *M.N.R.A.S.*, liv. p. 11, and has been generally adopted for the rectangular co-ordinates of a star on a plate fulfilling the following ideal conditions:—

- (i.) Plate truly centred and oriented for 1900.0.
- (ii.) No refraction and aberration.
- (iii.) A suitable unit of length adopted.

The formulæ giving these co-ordinates are—

$$\begin{aligned}\xi &= k \cdot \tan(\alpha - A) \cdot \sec(\theta - D) \cdot \cos \theta, \\ \eta &= k \cdot \tan(\theta - D),\end{aligned}$$

where

$$\tan \theta = \sec(\alpha - A) \cdot \tan \delta,$$

where

α, δ are the R.A. and Declination of the star,
 A, D are the R.A. and Declination of the plate centre,

and k depends on the adopted unit of length. For the Astrographic Catalogue, the unit chosen is 5' at the plate centre, and $k=687.54935$.

For the calculation of ξ, η , approximate formulæ were used, and reduced to tables. To avoid negative signs the constant 13.0000 has been added to the values of ξ, η to form

$$\xi' = \xi + 13, \eta' = \eta + 13,$$

and the quantities ξ', η' are given in the following Catalogue. The co-ordinates are thus referred to a corner of the réseau and not to the plate centre.

The Right Ascensions and Declinations used are those given in the Catalogue for 1900.0 without any application of proper motions.

For determining plate constants, stars known or suspected of proper motion were either omitted from the solution or a provisional proper motion was applied, but no such proper motions have been applied in forming the following Catalogue of Standard Co-ordinates.

(191)

Reference No.		Mag.	Standard co-ordinates, 1900-0.			Reference No.		Mag.	Standard co-ordinates, 1900-0.			Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.		Hyd.	Wash. or Alg.		ξ.	η.		Hyd.	Wash. or Alg.		ξ.	η.
R.A. 1^h 4^m (continued)						R.A. 1^h 28^m (continued)						R.A. 1^h 44^m (continued)				
1760	A. 303	8.9	18.0214	9.3185		2472	A. 397	8.9	7.7218	13.8903		2853	W. 468	8.8	20.7340	6.8221
1791	A. 310	8.9	21.1192	13.8367		2480	A. 400	8.2	8.5555	15.4371		2851	W. 478	6.6	24.6220	6.0847
1816	A. 312	8.5	21.7629	17.1585		2403	W. 379	8.9	9.1747	1.3038		2805	W. 479	7.8	25.0699	0.8185
1718	W. 294	9.4	23.7673	2.4119		2416	W. 381	8.3	9.2500	4.4378		2825	W. 481	8.8	25.4056	3.7264
1727	W. 298	9.2	24.7810	3.6440		2483	A. 404	8.4	10.3854	15.5984		R.A. 1^h 52^m				
R.A. 1^h 12^m						2423	W. 382	9.3	10.9685	5.4922		3036	W. 478	6.6	1.7197	6.0827
1907	W. 294	9.4	0.8254	2.4189		2474	A. 405	8.4	11.0437	13.5629		3001	W. 479	7.8	2.1108	0.8126
1916	W. 298	9.2	1.8525	3.6412		2535	A. 406	8.7	11.3874	25.9542		3020	W. 481	8.8	2.4777	3.7166
1939	W. 303	9.4	4.8141	6.0354		2476	A. 410	8.6	13.1464	14.5073		3065	A. 504	8.9	2.5811	11.6061
1901	W. 304	9.2	4.9050	0.4473		2456	A. 417	9.0	16.7717	11.7811		3122	A. 507	9.2	5.1910	19.9401
1940	W. 307	9.3	5.9378	5.7484		2419	W. 395	9.1	19.6065	25.0532		3043	A. 508	9.2	5.2782	7.4199
1970	A. 319	8.2	6.9132	10.2390		2457	A. 424	8.9	20.4640	4.6644		3049	A. 513	9.0	10.2842	8.4909
2057	A. 320	8.0	7.6769	21.5104		2452	A. 425	8.0	21.2595	10.7840		3053	A. 515	8.8	10.4411	9.3702
2039	A. 322	9.2	8.7381	18.8275		2468	A. 426	7.2	21.5909	13.4734		3039	W. 499	9.1	10.7270	6.3836
2082	A. 325	8.5	9.6654	24.3275		2512	A. 427	9.1	21.9427	20.1018		3031	W. 500	9.5	11.0788	4.9965
1984	A. 326	8.4	9.8343	11.9604		2446	A. 432	9.1	24.5882	10.5200		3078	A. 517	8.9	11.5295	14.1602
1911	W. 316	8.9	11.8336	2.8069		R.A. 1^h 36^m						3108	A. 519	8.7	13.0621	18.9225
1920	W. 317	8.9	12.4990	3.8436		2613	A. 432	9.1	1.7338	10.5183		3084	A. 520	7.6	14.3882	14.9848
2059	A. 329	9.0	12.5623	21.1642		2733	A. 433	9.1	2.7308	24.8376		3085	A. 521	8.6	15.3995	15.5190
1960	A. 332	8.0	13.2864	8.3656		2692	A. 435	8.9	3.3265	17.8664		3076	A. 524	9.2	17.4595	13.5007
2001	A. 335	8.1	14.6975	13.7824		2615	A. 436	9.1	6.2120	10.4498		3116	A. 527	8.3	19.5213	19.5693
1902	W. 326	9.2	15.1199	0.6126		2647	A. 439	8.7	8.4248	14.2736		3139	A. 530	9.2	22.7855	21.3327
1962	W. 332	8.2	21.3971	7.7692		2616	W. 413	9.1	8.6663	10.1197		3153	A. 532	9.1	24.6969	23.9478
1945	W. 334	9.3	22.0796	5.5000		2673	A. 441	7.8	8.7935	16.6193		3128	A. 533	8.9	25.1944	20.4871
1946	W. 335	9.3	22.9890	5.6699		2736	A. 442	9.0	9.5548	24.0476		R.A. 2^h 0^m				
R.A. 1^h 20^m						2650	A. 443	7.0	9.9804	13.6745		3367	A. 532	9.1	1.9873	23.9439
2174	W. 341	9.4	3.0162	4.2355		2592	W. 416	8.6	11.3280	6.9478		3337	A. 533	8.9	2.4475	20.4779
2286	A. 348	9.0	3.7223	17.8692		2626	A. 446	9.3	12.0069	10.5905		3234	W. 517	9.3	4.3942	6.1689
2263	A. 353	9.2	5.5311	14.8936		2700	A. 455	8.4	15.0305	18.9214		3212	W. 519	7.9	4.8349	1.6321
2152	W. 343	8.4	7.6597	1.0716		2593	W. 423	9.1	15.4995	7.2879		3213	W. 520	9.2	5.5224	1.6143
2159	W. 344	8.2	7.6693	2.0264		2611	A. 456	8.6	16.3424	9.1815		3306	A. 543	8.8	8.8758	15.9658
2289	A. 362	6.4	8.6976	18.4819		2712	A. 458	8.6	16.7328	20.5844		3240	W. 528	8.2	9.1137	7.1794
2338	A. 363	8.2	8.8333	24.5000		2686	A. 459	7.8	16.8835	17.7401		3284	A. 547	6.5	10.5338	12.9268
2351	A. 366	8.7	9.1936	24.9541		2687	A. 461	9.0	18.0484	16.7384		3333	A. 553	8.9	12.6306	18.9719
2156	W. 350	9.1	12.2596	0.5721		2574	W. 426	9.3	19.7913	4.9617		3261	A. 554	6.8	13.0276	10.1950
2323	A. 371	9.0	12.2599	21.8839		2654	A. 464	9.0	20.0878	14.3337		3274	A. 557	9.1	14.8174	11.9905
2280	A. 374	9.0	13.5923	17.2572		2655	A. 466	9.1	20.1630	14.3139		3267	A. 558	8.8	16.2113	10.4781
2193	W. 352	9.2	13.9656	6.1733		2575	W. 432	8.6	23.8643	5.0371		3289	A. 561	8.7	17.8662	13.1676
2361	A. 375	9.0	15.4146	25.9927		2731	A. 471	8.9	24.5054	23.8328		3297	A. 563	8.8	20.3640	14.3429
2229	A. 376	8.9	16.3871	10.9634		R.A. 1^h 44^m						3349	A. 566	9.0	21.6870	21.3130
2161	W. 360	9.2	17.4492	1.5857		2826	W. 432	8.6	0.9507	5.0431		3230	W. 553	8.7	22.1622	4.7151
2247	A. 377	9.3	17.6645	12.5741		2960	A. 471	8.9	1.7946	23.8312		3363	A. 567	8.8	22.1831	23.1310
2333	A. 379	8.7	19.2368	23.4165		2801	W. 436	9.4	2.9556	0.8047		3208	W. 554	9.2	22.7659	0.2015
2209	W. 361	9.4	20.8657	8.1149		2883	A. 474	9.0	5.5328	12.4081		3291	A. 570	8.7	23.6605	12.4994
2334	A. 381	8.9	20.0133	23.7264		2904	A. 475	9.4	8.4529	14.9916		3268	A. 571	7.6	24.4081	11.4182
2224	A. 384	7.5	22.2201	10.3815		2889	A. 476	7.4	8.5933	12.7999		3292	A. 572	9.0	24.4442	13.3591
2306	A. 388	8.6	22.5050	19.9836		2871	A. 477	7.5	9.6293	9.6123		3308	A. 573	6.4	24.4524	16.0685
2292	A. 389	6.3	24.6589	18.4913		2948	A. 479	8.9	10.2712	20.9192		3221	W. 559	9.0	25.2956	2.5013
R.A. 1^h 28^m						2844	W. 449	9.2	12.8654	5.8548		R.A. 2^h 8^m				
2495	A. 389	6.3	1.8905	18.4883		2968	A. 482	8.4	13.1637	23.5241		3504	A. 570	8.7	0.8275	12.5076
2440	W. 369	9.2	2.5443	10.0312		2914	A. 484	8.9	13.6576	16.1258		3495	A. 571	7.6	1.5634	11.4184
2448	A. 391	8.9	3.0789	10.6760		..	A. 485	8.3	13.8568	16.6995		3524	A. 572	9.0	1.6205	13.3587
2470	A. 395	8.9	6.1721	14.0297		2937	A. 486	8.5	13.9868	18.9034		3553	A. 573	6.4	1.6578	16.0679
2461	A. 396	8.8	7.4821	13.2865		2814	W. 452	9.2	14.3020	2.9140		3418	W. 559	9.0	2.3546	2.4924
						2820	W. 456	9.2	16.0216	4.2362		3447	W. 560	8.1	3.7453	6.2639
						2893	A. 492	9.0	16.5633	12.9333						
						2878	A. 497	9.0	18.6374	11.0874						
						2822	W. 467	8.6	20.6122	3.8120						

Reference No.					Reference No.					Reference No.				
Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.		
Hyd.	Wash. or Alg.	ξ.	η.		Hyd.	Wash. or Alg.	ξ.	η.		Hyd.	Wash. or Alg.	ξ.	η.	
R.A. 2^h 8^m (continued)					R.A. 2^h 32^m (continued)					R.A. 2^h 56^m (continued)				
3602	A. 577	9.2	4.0111	22.8314	4184	A. 682	7.9	8.3688	9.7369	4964	A. 802	9.0	6.1205	13.6499
3474	A. 581	8.8	5.8711	9.0430	4221	A. 685	7.5	10.9147	13.8263	4926	A. 803	9.4	8.2815	9.6854
3420	W. 566	9.0	5.9392	3.3010	4112	W. 684	9.3	11.0462	2.2623	4996	A. 804	9.0	9.6335	19.4077
3628	A. 583	9.0	8.1423	25.1155	4164	W. 685	8.1	11.2964	7.9726	4935	A. 805	9.3	9.7044	10.7503
3448	W. 570	9.1	8.4893	5.4965	4165	W. 686	8.6	12.2840	7.7326	4869	W. 790	8.4	10.2813	2.4848
3541	A. 585	5.6	9.6221	15.5714	4196	A. 690	8.8	13.4869	10.9694	4862	W. 792	9.0	11.0298	2.1589
3542	A. 590	7.2	11.0901	15.3792	4113	W. 691	8.8	13.5922	2.2078	4976	A. 814	7.4	14.4173	16.1465
3535	A. 594	9.1	12.5546	13.8661	4104	W. 692	9.1	14.9338	0.6829	4922	W. 794	8.2	15.0272	8.5374
3568	A. 601	8.6	16.2389	18.2243	4166	W. 696	8.6	16.9218	8.0730	4967	A. 816	9.2	15.5239	14.3889
3407	W. 578	8.6	16.4408	1.3406	4203	A. 695	8.8	17.1033	12.5627	5007	A. 819	7.0	17.1159	20.2163
3441	W. 579	8.1	16.8200	5.2980	4273	A. 701	8.9	19.5113	20.5074	4939	A. 820	8.2	17.6009	11.4233
3519	A. 603	9.0	17.9753	11.9092	4249	A. 706	9.2	22.7334	16.8036	4999	A. 823	9.0	18.1636	19.3273
3520	A. 604	9.0	18.0558	11.8430	4199	W. 711	9.3	24.3208	10.6406	5032	A. 825	9.1	19.2191	23.0039
3555	A. 605	8.8	18.0600	16.0755						5009	A. 827	8.5	19.9473	20.4928
3572	A. 606	8.8	21.2068	18.4645	R.A. 2^h 40^m					5033	A. 828	8.8	20.1593	23.7979
3599	A. 607	8.2	21.7031	21.4143	4432	A. 707	9.2	1.4692	10.6430	4991	A. 829	8.7	20.2831	18.6090
3416	W. 588	8.6	22.3839	1.9586	4550	A. 711	8.7	2.8418	25.3962	4969	A. 834	7.8	22.6454	14.5654
R.A. 2^h 16^m					4506	A. 712	8.8	3.1241	18.8202	4952	A. 841	9.1	25.1347	12.4640
3675	W. 596	9.2	4.6102	4.9023	4480	A. 713	7.9	3.1446	16.0026	R.A. 3^h 4^m				
3676	W. 598	8.5	5.1608	4.1644	4371	W. 716	8.8	3.7535	3.5537	5170	A. 841	9.1	2.3012	12.4562
3790	A. 616	8.9	6.5790	21.0298	4488	A. 714	9.2	4.2568	17.4572	5102	W. 809	7.7	4.0680	0.9685
3670	W. 602	8.9	8.0796	3.1247	4473	A. 723	9.0	7.2271	15.4870	5119	W. 810	9.2	4.7570	3.7468
3778	A. 620	9.1	9.1931	19.4324	4388	W. 722	8.9	8.4689	5.3425	5208	A. 845	9.0	5.2488	15.4216
3824	A. 621	8.4	9.3626	25.3673	4526	A. 729	8.5	8.9685	22.4663	5164	A. 849	8.2	7.3443	11.3455
3779	A. 624	8.3	10.9328	18.6985	4450	A. 730	9.2	10.2005	11.8781	5229	A. 852	8.5	10.0120	17.8585
3704	W. 608	9.2	14.4010	7.8530	4527	A. 731	9.0	11.0131	22.3905	5156	A. 854	9.2	10.9540	9.7739
3685	W. 614	9.0	15.8215	6.0392	4475	A. 733	8.7	13.9010	15.4475	5239	A. 864	8.8	15.8564	18.3601
3745	A. 632	5.9	16.9039	14.4093	4459	A. 734	8.1	14.1004	13.0196	5274	A. 866	9.1	16.0295	22.9610
3652	W. 617	7.8	17.4896	0.5598	4552	A. 735	4.8	14.2275	24.9539	5211	A. 869	9.1	16.9433	15.2167
3805	A. 635	6.4	19.3947	22.6928	4502	A. 742	8.6	18.4245	18.5540	5141	W. 836	9.2	19.4015	7.4049
3765	A. 636	9.1	20.5071	17.1213	4542	A. 743	9.1	18.4783	23.3976	5268	A. 875	8.8	19.5337	21.3849
3716	A. 638	9.1	22.8961	9.2179	4561	A. 748	9.2	20.8556	25.8757	5137	W. 837	9.0	20.3417	6.3325
3787	A. 640	8.6	23.5225	20.4131	4460	A. 749	8.8	20.9267	12.6841	5167	A. 878	9.2	20.4216	10.7629
3736	A. 641	8.9	23.6066	11.8744	4440	A. 750	9.0	21.0226	10.4768	..	W. 842	8.3	21.8681	0.4687
R.A. 2^h 24^m					4532	A. 751	8.8	21.5564	21.8465	5199	A. 881	8.9	22.0334	14.0831
3935	A. 641	8.9	0.7668	11.8832	4523	A. 752	9.0	22.1367	21.3790	5285	A. 882	9.2	22.3026	24.0402
4002	A. 640	8.6	0.7749	20.4227	4533	A. 753	9.0	22.5394	22.1130	5103	W. 846	9.4	23.9791	0.9197
3869	W. 633	9.2	4.7211	2.8731	4377	W. 745	7.9	24.4403	3.7646	5115	W. 848	8.7	24.4273	2.8685
3870	W. 636	8.8	6.5926	3.2465	R.A. 2^h 48^m					5259	A. 886	9.0	24.6699	20.1088
3905	W. 637	9.0	7.7070	8.3281	4628	W. 745	7.9	1.5129	3.7646	R.A. 3^h 12^m				
4044	A. 656	7.8	13.5568	25.7983	4629	W. 749	9.0	3.5257	3.8896	5351	W. 846	9.4	1.0209	0.9246
4033	A. 660	8.3	14.2697	24.7516	4668	W. 750	8.5	3.5636	7.7994	5361	W. 848	8.7	1.4896	2.8685
3916	A. 662	8.8	14.6748	9.4414	4604	W. 752	9.1	4.1028	2.1848	5481	A. 886	9.0	1.9189	20.1055
3893	W. 651	8.6	16.9789	6.0765	4678	A. 762	8.0	4.5801	9.3587	5496	A. 887	8.8	2.6404	22.7903
3895	W. 658	9.5	20.6631	6.1277	4807	A. 766	9.0	5.5362	23.5850	5510	A. 889	9.0	3.1063	24.0161
3987	A. 667	9.1	21.0736	18.1878	4681	A. 775	7.9	10.6488	8.9572	5428	A. 890	8.9	3.1795	13.0825
4038	A. 669	9.0	23.1523	23.9603	4801	A. 778	8.0	11.2075	22.2683	5429	A. 891	8.9	4.0316	12.9329
3892	W. 665	9.1	24.1626	4.6009	4763	A. 779	8.1	12.3662	18.0585	5379	W. 852	8.2	4.5707	5.9149
3998	A. 671	9.2	24.1707	18.8498	4611	W. 763	8.2	13.3385	1.3459	5523	A. 893	8.6	4.7052	25.9726
R.A. 2^h 32^m					4809	A. 782	8.8	13.3682	23.2767	5384	W. 853	9.4	5.6423	6.6662
4134	W. 665	9.1	1.2443	4.6037	4612	W. 764	9.4	14.2395	1.9451	5452	A. 894	8.2	5.8328	15.8833
4260	A. 671	9.2	1.4061	18.8521	4634	W. 769	9.0	18.3956	3.3848	5360	W. 854	9.0	6.2911	1.4628
4284	A. 673	8.7	2.9618	22.5822	4654	W. 776	8.6	22.4626	5.5606	5463	A. 898	9.1	9.3976	16.7769
4209	A. 675	8.0	3.7811	13.4014	R.A. 2^h 56^m					5478	A. 900	7.5	9.9262	19.5324
4286	A. 676	8.8	3.8483	22.4160	4859	W. 779	8.9	2.9759	1.2965	..	W. 861	8.8	9.9596	0.1054
4107	W. 670	9.0	4.1432	1.5632	5028	A. 800	9.3	5.2102	23.0857	5369	W. 862	8.2	10.5676	3.3776
					4910	W. 782	9.5	5.2596	8.2186	5493	A. 904	8.3	10.8543	21.8043
										5485	A. 907	9.0	11.3343	20.2660

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 3^h 12^m (continued)					R.A. 3^h 36^m					R.A. 3^h 52^m (continued)				
5500	A. 915	8.9	15.3845	22.0954	6177	A. 1006	8.1	0.7795	23.5900	6782	A. 1151	8.4	14.5868	23.1173
5487	A. 916	9.1	15.4767	20.5982	6078	A. 1007	6.1	0.8114	10.6127	6632	A. 1153	8.9	15.5190	10.8622
5430	A. 917	8.8	15.8839	13.1463	6115	A. 1010	9.1	2.6572	15.4909	6719	A. 1154	8.9	16.6934	18.7608
5431	A. 918	9.0	17.3140	13.0044	6116	A. 1011	8.6	3.3812	15.4881	6720	A. 1156	8.7	17.5243	18.5140
5432	A. 920	9.3	17.8883	12.8824	6093	A. 1015	9.1	5.6428	12.8741	6602	W. 1054	9.1	17.8817	8.9581
5513	A. 921	9.1	18.1247	24.7785	6206	A. 1018	8.6	7.2720	25.8931	6648	A. 1159	9.1	18.4179	12.3970
5514	A. 923	6.2	19.0148	24.0830	6064	A. 1026	7.0	10.3185	9.2729	6682	A. 1160	9.1	18.7619	15.6950
5403	W. 879	8.4	20.9479	10.4642	6005	W. 964	8.8	11.4397	0.5399	6581	W. 1057	9.4	19.9887	7.1943
5422	A. 927	8.8	22.5481	12.0971	6160	A. 1034	9.2	14.1376	21.6157	6751	A. 1163	9.3	20.7717	20.6782
5470	A. 929	8.9	23.2941	17.3936	6121	A. 1035	8.9	14.8248	15.5615	6752	A. 1164	9.1	20.9015	20.7953
5425	A. 931	8.2	24.8344	11.6169	6065	A. 1036	9.1	14.8707	9.2692	6685	A. 1167	8.4	22.3376	15.3811
5366	W. 884	9.5	25.5748	2.6478	6041	W. 975	9.0	16.6565	5.4620	6520	W. 1060	8.6	22.4329	1.9233
R.A. 3^h 20^m					6048	W. 976	8.0	17.3195	6.5856	6727	A. 1171	9.2	24.4721	17.9422
5645	A. 931	8.2	1.9919	11.6124	6185	A. 1041	9.3	17.5524	22.8788	6559	W. 1063	9.0	24.6495	4.4526
5566	W. 884	9.5	2.6354	2.6360	6050	W. 978	8.8	18.1580	7.0135	6571	W. 1064	8.8	25.2522	5.6999
5575	W. 891	9.1	7.9908	3.3570	6202	A. 1048	8.0	19.3719	25.3785	R.A. 4^h 0^m				
5632	A. 943	6.8	9.3204	10.5639	6166	A. 1051	8.8	21.2050	20.8786	7027	A. 1171	9.2	1.6978	17.9414
5616	W. 897	9.2	11.4010	8.7941	6154	A. 1058	9.0	24.5043	20.3003	6887	W. 1063	9.0	1.7296	4.4506
5762	A. 946	8.7	12.4808	22.9248	R.A. 3^h 44^m					6900	W. 1064	8.8	2.3458	5.6920
5769	A. 949	9.1	14.3151	23.9976	6424	A. 1058	9.0	1.7554	20.2990	6927	W. 1065	7.9	3.0246	8.7742
5674	A. 951	8.7	15.8614	13.6062	6399	A. 1060	8.8	3.1112	17.5800	7015	A. 1178	9.4	4.3179	16.4855
5751	A. 954	8.2	17.3685	22.4976	6320	W. 989	8.5	4.6780	6.4869	7016	A. 1179	9.2	4.4873	16.5925
5734	A. 958	8.8	18.8865	19.8877	6266	W. 990	8.6	5.5153	1.7708	7094	A. 1180	8.8	4.8463	22.6061
5619	W. 911	9.2	18.9116	8.6963	6348	A. 1076	9.1	7.7206	10.9258	7030	A. 1181	8.9	5.2824	17.9698
5778	A. 960	9.3	19.3295	24.8656	6350	A. 1080	7.6	10.0832	10.9887	7075	A. 1182	7.9	5.4884	20.7835
5580	W. 913	9.4	19.6156	3.5832	6259	W. 1001	9.1	11.8254	0.8695	6878	W. 1072	9.1	8.4753	3.4142
5779	A. 961	8.9	20.2186	24.8542	6394	A. 1090	8.6	14.9675	16.3186	6868	W. 1075	9.2	10.3464	2.1860
5780	A. 962	8.7	20.5628	25.5415	6395	A. 1091	8.7	15.4892	15.9758	7063	A. 1199	9.0	10.9078	19.8386
5782	A. 967	8.7	24.7109	25.0056	6406	A. 1092	9.0	15.5081	17.2393	7037	A. 1201	8.9	11.3785	17.9870
5749	A. 968	8.5	24.7496	21.7148	6342	A. 1093	9.2	15.5813	10.1663	6871	W. 1083	9.4	13.7828	2.4383
5740	A. 969	8.9	24.7832	19.9322	6260	W. 1006	9.2	15.6990	0.3216	7006	A. 1210	9.0	14.1089	15.7063
5641	A. 971	8.9	25.1481	10.9508	6428	A. 1096	8.5	15.8691	20.1956	6872	W. 1085	8.9	14.9022	2.2900
R.A. 3^h 28^m					6273	W. 1009	7.8	17.6234	1.9487	6915	W. 1086	9.2	15.3340	6.8230
5968	A. 967	8.7	2.0127	25.0015	6261	W. 1010	8.2	17.7236	0.2852	6984	A. 1215	8.9	17.6319	14.2203
5941	A. 968	8.5	2.0159	21.7105	6469	A. 1101	7.7	17.9644	25.5992	6985	A. 1216	9.5	17.7877	14.2421
5938	A. 969	8.8	2.0303	19.9277	6262	W. 1011	8.3	18.6086	0.8962	7021	A. 1220	7.0	19.0744	16.8463
5879	A. 971	8.9	2.2983	10.9431	6325	W. 1017	8.6	21.6240	6.6010	7012	A. 1226	8.9	20.0112	15.8007
5908	A. 973	9.0	3.1217	15.5756	6316	W. 1018	9.0	22.1712	6.2622	7041	A. 1228	9.2	20.6451	17.5552
5914	A. 974	8.9	3.8976	15.9338	6380	A. 1107	9.0	22.4144	14.3453	6863	W. 1095	9.0	20.9454	2.0678
5820	W. 918	8.7	4.3142	5.1321	6458	A. 1109	8.9	23.3271	23.5314	6894	W. 1097	9.0	21.9227	4.5441
5969	A. 977	9.1	4.8270	25.8230	6353	A. 1111	8.6	23.6896	10.9747	6856	W. 1099	9.1	23.6806	0.4341
5821	W. 920	9.0	5.5519	4.5811	6295	W. 1022	9.0	24.3871	3.6091	6917	W. 1100	8.8	23.9393	7.2365
5909	A. 981	8.8	7.2325	15.5580	6319	W. 1025	9.3	25.3781	5.6423	7092	A. 1235	9.0	24.8648	22.0192
5950	A. 984	7.3	8.1485	22.6902	R.A. 3^h 52^m					6980	A. 1236	8.9	25.0454	13.1134
5841	W. 924	8.9	8.6206	7.1195	6626	A. 1111	8.6	0.8401	10.9826	R.A. 4^h 8^m				
5801	W. 927	9.0	8.8379	0.4683	6536	W. 1022	9.0	1.4581	3.6101	7151	W. 1099	9.1	0.7174	0.4418
5925	A. 986	8.9	8.9716	18.4234	6562	W. 1025	9.3	2.4710	5.6324	7219	W. 1100	8.8	1.0495	7.2415
5812	W. 928	7.2	9.6432	2.4436	6730	A. 1115	8.9	2.6417	18.9120	7391	A. 1235	9.0	2.1345	22.0137
5842	W. 929	9.1	10.1289	7.1610	6762	A. 1117	6.6	2.9463	22.1135	7292	A. 1236	8.9	2.2187	13.1065
5951	A. 987	8.7	10.9245	22.8840	6755	A. 1120	6.9	3.6951	21.8028	7331	A. 1238	8.0	2.5966	15.5483
5815	W. 932	9.0	13.7531	2.6136	6733	A. 1126	8.9	6.7898	19.4365	7276	A. 1242	8.3	3.0938	11.5390
5952	A. 994	8.7	14.5517	22.0244	6703	A. 1128	8.7	7.2442	17.3971	7159	W. 1104	9.4	3.1955	1.6799
5817	W. 937	9.0	15.7387	4.3936	6594	W. 1034	8.8	7.9551	8.8285	7253	A. 1247	8.3	4.4393	9.8881
5855	W. 946	9.2	22.4898	7.5891	6613	A. 1133	8.6	8.0221	10.1601	7254	A. 1248	8.4	4.6297	10.2044
5837	W. 947	8.2	23.2324	5.9752	6551	W. 1036	8.5	8.0931	4.6483	7177	W. 1110	9.0	4.7734	2.8034
5868	W. 948	9.6	23.3881	8.7625	6524	W. 1040	9.0	9.8812	2.7585	7411	A. 1251	8.4	6.1077	24.6893
5963	A. 1006	8.1	23.4930	23.5801	6656	A. 1141	8.3	10.7649	12.8931	7210	W. 1116	9.0	7.8631	5.8531
5876	A. 1007	6.1	23.6648	10.6045	6658	A. 1150	9.0	14.0408	13.3200					

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Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.
R.A. 4^h 56^m (continued)					R.A. 5^h 12^m (continued)					R.A. 5^h 36^m (continued)				
9362	A. 1605	8.6	21.8475	17.1409	10,223	A. 1710	6.7	21.2543	20.5027	11,613	A. 1835	8.6	3.7800	24.6396
9496	A. 1612	8.9	24.6528	25.1539	10,225	A. 1711	9.2	21.4483	19.9779	11,532	A. 1836	9.1	5.1319	19.6029
9298	A. 1614	7.5	24.9781	13.3220	10,074	A. 1712	9.1	21.5167	11.2203	11,252	W. 1677	9.0	5.2108	6.8742
9310	A. 1616	8.4	25.1454	13.9947	9,945	W. 1544	8.9	22.7828	3.2966	11,575	A. 1838	8.5	6.8564	22.2702
					10,058	A. 1719	8.8	23.9739	10.5034	11,158	W. 1683	7.6	7.7540	0.6876
R.A. 5^h 4^m					R.A. 5^h 20^m					11,444	A. 1843	9.0	7.8464	15.8461
9850	A. 1612	8.9	1.9563	25.1505	10,505	A. 1719	8.8	1.1194	10.5083	11,186	W. 1684	8.8	8.2087	2.5286
9696	A. 1614	7.5	2.1538	13.3159	10,435	W. 1555	9.0	3.9158	6.0925	11,363	A. 1845	9.4	9.3860	11.6624
9712	A. 1616	8.4	2.3285	13.9867	10,495	W. 1561	7.1	5.8433	9.4234	11,364	A. 1846	6.9	9.7566	11.8658
9673	A. 1617	9.1	2.6070	10.6832	10,754	A. 1729	9.2	6.0187	24.2408	11,365	A. 1847	8.0	9.7823	11.6118
9633	W. 1441	9.0	6.2796	7.8968	10,594	A. 1731	8.7	7.1851	15.5784	11,367	A. 1848	8.8	9.9648	12.0759
9551	W. 1445	9.1	7.1485	0.3846	10,410	W. 1564	9.0	7.9031	5.4508	11,578	A. 1850	8.5	11.0381	22.3202
9552	W. 1446	9.2	7.1579	0.4782	10,397	W. 1568	9.4	8.7396	3.6972	11,538	A. 1853	8.8	11.6417	20.0219
9768	A. 1629	9.0	7.8330	18.3202	10,411	W. 1569	8.8	9.2545	4.8218	11,621	A. 1856	8.6	11.9529	24.5707
9608	W. 1449	7.9	9.2683	6.1370	10,600	A. 1742	8.9	12.5810	15.0800	11,191	W. 1696	9.1	12.5394	2.8860
9770	A. 1632	8.9	9.4684	18.2161	10,370	W. 1582	6.5	13.0593	1.7987	11,162	W. 1698	9.0	12.6375	1.0694
9734	A. 1634	8.7	10.6163	14.7583	10,399	W. 1583	8.6	14.1001	3.4737	11,581	A. 1859	8.7	13.3129	22.5919
9609	W. 1452	8.0	10.8750	6.0173	10,728	A. 1751	8.6	15.0647	22.7176	11,486	A. 1866	8.8	14.2053	18.2968
9834	A. 1636	8.9	10.9621	23.0184	10,607	A. 1766	9.1	21.8961	15.6360	11,166	W. 1702	8.8	15.1405	0.1234
9610	W. 1453	9.0	11.3387	5.3743	10,592	A. 1770	8.1	23.1078	14.0696	11,516	A. 1869	8.2	15.4006	19.1488
..	W. 1454	9.2	11.7857	0.0945	10,733	A. 1772	8.8	23.6424	21.9281	11,319	W. 1705	8.4	16.1189	10.1856
9742	A. 1642	8.0	13.3120	15.9917	..	W. 1615	8.6	24.4162	0.2326	11,208	W. 1712	9.0	17.1047	4.1877
9625	W. 1457	9.0	13.3701	6.4868	R.A. 5^h 28^m					11,656	A. 1871	8.6	17.6836	25.3901
9701	A. 1644	8.7	14.6074	13.4319	11,073	A. 1772	8.8	0.9111	21.9363	11,283	W. 1717	7.2	18.2148	7.9536
9594	W. 1461	9.2	15.5602	4.7171	10,851	W. 1615	8.6	1.4508	0.2336	11,178	W. 1721	8.2	19.1269	1.7838
9569	W. 1467	8.9	17.5796	2.7730	10,916	W. 1618	8.6	3.1742	7.1113	11,344	A. 1875	9.1	19.4347	11.0804
9825	A. 1654	8.0	19.1464	22.4566	10,905	W. 1619	8.3	3.5644	5.8367	11,414	A. 1878	8.9	19.6833	13.4629
9570	W. 1475	9.0	21.3098	3.0241	11,052	A. 1781	8.8	3.7616	19.9074	11,302	W. 1725	9.4	19.8195	8.8002
9759	A. 1664	8.6	22.7013	17.5985	10,889	W. 1622	9.0	5.2183	4.9996	11,493	A. 1879	8.5	19.9914	17.9156
9617	W. 1479	8.9	23.5640	5.6038	11,059	A. 1785	9.0	6.7236	20.6167	11,346	A. 1880	8.9	20.2700	10.9686
9642	W. 1482	8.8	24.6126	7.8991	11,060	A. 1787	8.5	7.3010	21.0366	11,398	A. 1881	8.5	20.4240	12.8010
9643	W. 1484	8.8	24.7702	7.9225	11,062	A. 1788	8.5	8.2176	21.2172	11,543	A. 1884	5.5	21.4818	20.2518
R.A. 5^h 12^m					10,862	W. 1634	9.2	9.8368	1.5171	11,471	A. 1893	7.6	23.4941	16.9863
9,974	W. 1479	8.9	0.6566	5.6128	10,910	W. 1635	9.0	9.9384	6.0069	11,417	A. 1894	9.0	23.7998	14.3958
10,016	W. 1482	8.8	1.7298	7.8971	11,004	A. 1796	9.1	10.7583	15.1585	11,440	A. 1901	8.8	25.3423	14.5672
10,017	W. 1484	8.8	1.8878	7.9197	11,079	A. 1797	8.4	11.1452	22.4878	11,273	W. 1741	8.7	25.3780	6.5726
10,256	A. 1669	9.0	2.6585	22.9182	10,953	A. 1799	8.6	11.8072	11.0874	R.A. 5^h 44^m				
10,105	A. 1673	8.5	3.7861	13.9922	10,936	W. 1643	9.2	12.0289	8.6754	11,944	A. 1893	7.6	0.7095	16.9961
10,140	A. 1674	8.5	3.9156	16.3736	10,966	A. 1804	3.0	13.9112	11.7262	11,896	A. 1894	9.0	0.9872	14.4023
10,049	W. 1493	8.6	3.9773	9.5603	10,892	W. 1651	8.2	14.6602	4.9478	11,798	W. 1741	8.7	2.4808	6.5626
9,918	W. 1494	7.7	4.1809	1.3342	10,855	W. 1652	9.0	14.8401	1.1125	11,898	A. 1901	8.8	2.5314	14.5572
10,231	A. 1675	8.6	4.5657	21.1188	11,067	A. 1810	8.7	15.4141	20.5841	11,774	W. 1743	8.6	2.7306	4.5499
9,950	W. 1497	8.0	4.6842	3.6969	10,957	A. 1812	8.4	16.5594	11.2570	12,063	A. 1904	8.7	3.2287	25.6043
10,200	A. 1682	7.6	7.5677	19.0191	11,015	A. 1813	8.8	16.8099	16.2068	11,801	W. 1754	8.6	5.3955	6.4935
9,954	W. 1520	7.0	14.0238	4.0264	11,083	A. 1814	8.5	16.8360	21.9788	12,000	A. 1914	8.6	6.5485	21.6190
10,023	W. 1523	9.1	14.9278	7.7221	11,041	A. 1815	9.0	17.0696	19.1885	11,948	A. 1916	8.8	7.2019	17.2219
9,955	W. 1524	9.0	14.9377	4.2194	11,031	A. 1820	7.8	18.2430	17.8841	12,064	A. 1920	8.7	8.2008	25.0390
10,080	A. 1693	7.2	15.7195	11.5995	10,880	W. 1657	9.0	18.3352	3.6661	11,900	A. 1924	9.0	8.8530	14.5061
10,251	A. 1695	8.1	16.5396	22.2333	11,108	A. 1822	6.9	18.3856	23.5631	11,919	A. 1925	8.5	9.4030	15.4724
10,097	A. 1696	8.9	16.5851	12.6673	10,939	W. 1658	8.8	19.2401	8.4527	12,065	A. 1927	8.5	10.5571	25.1588
10,147	A. 1697	8.7	16.7021	15.9544	..	W. 1666	8.8	23.4314	0.1342	11,989	A. 1928	8.8	11.4588	20.8013
10,190	A. 1699	8.9	17.5990	18.4315	11,088	A. 1829	8.6	23.5940	22.1221	11,922	A. 1932	8.8	12.4965	15.3484
10,239	A. 1700	8.2	17.6332	21.6310	R.A. 5^h 36^m					12,003	A. 1934	9.0	13.1634	21.8452
10,009	W. 1533	8.6	17.8024	6.6956	11,568	A. 1829	8.6	0.8648	22.1309	12,067	A. 1935	8.9	13.1347	25.6767
10,263	A. 1701	8.7	18.6371	23.1156	11,172	W. 1672	8.9	2.8003	1.9448	11,906	A. 1940	8.6	15.0100	14.0616
10,047	W. 1537	8.4	19.6764	9.1393	11,199	W. 1673	9.2	3.2488	3.8249	11,817	W. 1775	8.6	15.7508	8.3550
10,148	A. 1704	6.5	19.8087	15.8528						12,007	A. 1947	8.9	17.3794	21.3621
9,928	W. 1538	9.0	20.4098	1.8608						11,938	A. 1950	8.7	18.0033	16.7430
9,958	W. 1540	8.9	21.0466	3.6230						11,884	A. 1953	9.0	18.5168	12.5929
										12,021	A. 1954	8.8	18.7748	22.0808
										11,755	W. 1787	8.7	19.4629	2.8924

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 5 ^h 44 ^m (continued)					R.A. 6 ^h 0 ^m (continued)					R.A. 6 ^h 16 ^m (continued)				
11,993	A. 1957	8.9	20.1168	20.6814	12,487	W. 1905	9.0	18.0921	7.8328	13,397	W. 2013	9.0	11.1510	7.3940
12,022	A. 1958	8.9	20.5100	22.0364	12,564	A. 2079	8.7	18.0931	13.5458	13,548	A. 2189	8.8	11.4621	17.5047
11,886	A. 1961	8.5	21.7304	12.1569	12,565	A. 2080	8.9	18.1129	13.4339	13,411	W. 2016	8.9	11.7816	8.6886
12,024	A. 1966	8.9	22.5941	22.3660	12,721	A. 2085	8.8	20.6138	25.9492	13,348	W. 2018	9.0	12.8615	3.7955
11,743	W. 1797	8.8	23.2480	1.4604	12,511	W. 1913	9.0	20.8203	10.0665	13,647	A. 2195	9.4	13.7835	23.7873
11,821	W. 1799	8.4	23.7976	7.9890	12,525	W. 1914	8.5	21.1504	10.6696	13,466	A. 2196	8.8	13.7933	11.4051
12,069	A. 1969	7.4	23.9434	25.9714	12,491	W. 1917	8.9	22.2975	8.1510	13,602	A. 2198	8.7	14.1715	21.0257
11,840	W. 1801	9.2	24.3565	8.7914	12,449	W. 1920	9.2	22.8661	4.3828	13,509	A. 2199	9.0	14.2487	14.6704
R.A. 5 ^h 52 ^m					12,450	W. 1921	9.2	22.9711	4.9066	13,480	W. 2025	9.1	14.2544	12.3477
12,165	W. 1799	8.4	0.9160	7.9960	12,451	W. 1924	9.0	24.6581	4.8958	13,312	W. 2026	7.9	14.3367	0.2128
12,361	A. 1969	7.4	1.2557	25.9760	12,725	A. 2097	9.0	24.7940	25.9686	13,349	W. 2027	9.0	14.6559	3.1602
12,171	W. 1801	9.2	1.4834	8.7924	R.A. 6 ^h 8 ^m					13,448	W. 2028	8.8	14.6668	10.4553
12,234	A. 1974	9.0	3.7099	13.7472	12,811	W. 1924	9.0	1.7430	4.8938	13,469	A. 2202	8.1	14.8407	11.9424
12,197	W. 1812	8.6	3.8634	10.5381	13,260	A. 2097	9.0	2.1062	25.9634	13,384	W. 2036	9.0	15.6261	6.7021
12,137	W. 1815	8.8	4.3902	4.4556	12,753	W. 1928	9.0	3.9548	0.9040	13,511	A. 2207	8.0	16.5199	14.4056
12,252	A. 1980	8.8	5.7292	15.0293	12,812	W. 1929	8.0	3.9770	4.3129	13,522	A. 2208	9.0	16.5417	15.8651
12,119	W. 1821	8.6	6.4829	2.5179	13,028	A. 2100	6.7	4.2809	14.3218	13,552	A. 2212	8.8	17.1573	17.7530
12,200	W. 1823	8.3	7.4682	10.4907	13,112	A. 2102	8.2	4.3524	18.7701	13,498	A. 2213	8.8	17.2223	13.4665
12,190	W. 1824	8.8	7.6186	9.7246	13,247	A. 2108	8.8	5.0888	24.7782	13,663	A. 2214	9.1	17.3421	24.7662
12,342	A. 1985	8.5	8.2319	23.5404	12,890	W. 1938	9.0	7.2709	7.4554	13,628	A. 2215	8.9	17.5797	22.7201
12,101	W. 1826	8.4	9.0630	0.8689	12,800	W. 1939	8.7	7.2878	3.2758	13,664	A. 2216	9.2	18.0017	24.8012
12,357	A. 1988	7.7	10.8105	24.7129	13,116	A. 2116	8.9	8.3757	18.9894	13,678	A. 2218	8.7	18.6352	25.5934
12,224	A. 1990	8.8	11.0977	13.2989	12,912	W. 1940	9.1	8.4520	8.5713	13,471	A. 2221	2.6	19.5527	11.8842
12,217	A. 1993	8.5	12.1902	11.7405	12,846	W. 1946	8.6	10.7777	6.0568	13,630	A. 2223	8.9	20.0524	22.6341
12,136	W. 1838	8.2	12.6051	4.0498	13,034	W. 1950	7.2	11.0859	14.9636	13,586	A. 2224	8.7	20.1808	19.9765
12,206	A. 1997	8.8	12.9981	11.1833	13,138	A. 2129	8.7	11.8468	19.8345	13,339	W. 2050	9.3	20.6534	2.7273
12,143	W. 1840	9.0	13.0683	4.5479	13,081	A. 2133	8.8	13.8987	16.3842	13,514	A. 2225	8.5	21.0356	15.0747
12,278	A. 2005	8.5	14.0667	16.6720	12,929	W. 1954	7.8	14.0358	9.8546	13,654	A. 2227	7.5	21.9445	24.3703
12,120	W. 1842	9.3	16.2687	2.5429	12,805	W. 1955	9.0	14.1053	3.5600	13,369	W. 2058	8.8	23.1646	5.6871
12,241	A. 2010	7.0	16.3089	13.8026	13,210	A. 2137	8.9	15.3002	22.9402	13,454	W. 2059	8.6	23.7142	11.0021
12,336	A. 2015	8.8	18.1679	22.5755	13,188	A. 2141	8.9	16.9131	21.7590	13,670	A. 2236	9.0	24.5923	24.8235
12,227	A. 2016	8.7	18.2709	12.9696	13,099	A. 2142	8.8	17.0893	17.8352	R.A. 6 ^h 24 ^m				
12,365	A. 2020	8.7	20.1391	25.9821	12,879	W. 1966	8.8	18.3441	6.3926	13,868	W. 2059	8.6	0.8650	11.0092
12,219	A. 2023	8.8	21.1797	11.9697	12,956	W. 1968	8.9	18.6007	10.5719	14,117	A. 2236	9.0	1.8921	24.8208
12,117	W. 1854	9.2	21.5670	2.0452	12,854	W. 1969	8.9	18.6572	6.1539	13,995	A. 2241	8.7	3.9442	18.1673
12,118	W. 1860	8.6	22.6245	2.0615	12,880	W. 1970	9.2	18.6717	6.4300	14,044	A. 2246	8.7	5.6506	20.0238
12,300	A. 2028	8.8	23.2082	19.0756	13,018	A. 2147	8.5	19.5253	13.6418	14,104	A. 2249	8.3	6.5994	24.0235
R.A. 6 ^h 0 ^m					13,104	A. 2151	6.5	21.2855	18.3400	13,936	A. 2253	8.9	7.7823	15.0913
12,467	W. 1870	8.5	3.7962	7.1140	13,127	A. 2153	8.8	21.6511	18.6136	14,088	A. 2255	9.0	8.4821	23.2487
12,594	A. 2039	8.7	4.7533	16.4974	13,147	A. 2155	8.8	21.8308	19.8856	13,899	A. 2257	9.0	8.5425	12.1707
12,444	W. 1874	9.1	5.0432	4.6451	12,763	W. 1977	8.0	23.0044	0.9753	13,707	W. 2085	8.4	8.7988	0.2756
12,558	A. 2042	8.6	5.4339	13.7649	12,779	W. 1979	9.3	23.2186	1.9905	13,839	W. 2087	8.4	9.4727	8.2544
12,625	A. 2043	8.4	5.7394	19.2447	12,907	W. 1982	9.1	23.6123	7.4886	14,120	A. 2263	8.5	10.2097	24.5950
12,644	A. 2048	8.2	7.3597	19.7966	12,981	A. 2162	8.9	24.0452	11.8917	13,825	W. 2091	9.2	11.4498	7.8071
12,518	A. 2049	8.9	7.4953	11.2061	12,885	W. 1985	8.4	24.7475	6.6905	14,121	A. 2272	8.7	11.9056	25.4387
12,610	A. 2051	8.5	7.9764	17.7902	R.A. 6 ^h 16 ^m					13,753	W. 2094	9.0	12.9217	3.8208
12,575	A. 2053	8.6	8.2764	14.8709	13,393	W. 1982	9.1	0.7252	7.4977	13,785	W. 2096	7.1	13.5573	5.8292
12,521	W. 1882	8.7	9.1805	10.5950	13,460	A. 2162	8.9	1.2057	11.8958	14,094	A. 2284	8.8	15.0793	23.2978
12,646	A. 2062	8.9	11.4518	19.6075	13,373	W. 1985	8.4	1.8517	6.6877	13,857	W. 2100	8.2	15.6925	9.9710
12,706	A. 2065	8.2	12.9858	24.9812	13,544	A. 2166	8.9	2.9021	17.9221	13,712	W. 2101	7.8	16.4013	0.3397
12,542	A. 2068	8.0	14.0622	12.4036	13,572	A. 2167	8.0	3.1101	19.8832	13,770	W. 2104	9.2	17.0904	4.6825
12,562	A. 2071	7.9	14.2482	13.8647	13,304	W. 1990	8.8	4.3219	0.5895	14,007	A. 2288	8.9	17.1022	18.2855
12,436	W. 1900	9.2	16.6034	3.5687	13,346	W. 1996	8.8	6.1743	3.8969	13,984	A. 2289	9.0	17.1240	17.3038
12,601	A. 2076	9.2	16.6759	17.0853	13,576	A. 2176	9.0	6.6191	19.2861	14,010	A. 2292	9.1	17.8716	17.8429
12,408	W. 1902	8.3	16.9082	0.4105	13,545	A. 2178	8.7	7.1268	17.5184	13,886	W. 2114	8.1	19.4806	11.1731
12,698	A. 2078	9.1	17.8588	23.6140	13,382	W. 2011	8.0	10.8977	6.8068	13,945	A. 2299	8.9	20.0800	14.4119
										13,792	W. 2124	9.0	21.7808	6.0650
										13,913	A. 2307	6.9	23.0567	12.9102
										13,834	W. 2132	9.0	24.2192	7.7106
										13,916	A. 2311	9.1	24.4890	12.9954

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 6^h 32^m					R.A. 6^h 40^m (continued)					R.A. 6^h 48^m (continued)				
14,270	W. 2132	9.0	1.3345	7.7126	14,973	A. 2445	7.9	14.3152	18.6022	15,513	A. 2565	8.6	22.8047	16.9972
14,366	A. 2311	9.1	1.6613	12.9947	14,707	W. 2244	8.8	14.5826	0.1477	..	W. 2346	6.0	23.5525	0.1180
14,287	W. 2136	8.1	2.6418	8.6499	14,909	A. 2446	6.9	15.1807	14.9664	15,707	A. 2568	9.0	23.6214	24.6720
14,235	W. 2139	9.1	3.7655	5.9766	14,833	W. 2248	9.2	15.9460	9.8514	15,185	W. 2347	9.0	23.9794	1.8774
14,370	A. 2319	8.7	4.4011	13.0318	15,070	A. 2449	9.0	15.9745	24.4073	15,294	W. 2349	9.0	24.4942	6.2360
14,391	A. 2321	9.1	4.9698	13.8593	14,719	W. 2251	7.0	16.5418	1.8718	15,566	A. 2572	8.7	24.6113	19.3893
14,223	W. 2149	9.0	7.6610	4.4436	14,958	A. 2458	8.4	17.5362	18.0424	R.A. 6^h 56^m				
14,551	A. 2327	8.3	7.7302	21.8116	14,959	A. 2459	7.9	17.9408	17.8893	..	W. 2346	6.0	0.5859	0.1277
14,375	A. 2331	9.0	8.6438	12.3822	14,711	W. 2263	8.9	18.8933	0.1443	..	A. 2568	9.0	0.9197	24.6803
14,157	W. 2157	9.1	9.6786	0.3095	14,991	A. 2464	9.0	18.9272	19.5728	..	W. 2347	9.0	1.0318	1.8823
14,468	A. 2342	9.0	10.8927	17.9674	14,978	A. 2466	8.7	18.9926	19.2469	..	W. 2349	9.0	1.5936	6.2360
14,430	A. 2344	8.9	11.4907	15.7333	15,013	A. 2469	9.0	19.0391	20.7279	..	A. 2572	8.7	1.8525	19.3869
14,516	A. 2347	8.2	12.9479	19.9399	14,913	A. 2470	9.3	19.1742	14.7120	15,771	W. 2352	9.0	2.8541	0.3872
14,517	A. 2349	6.5	13.0047	19.9332	15,087	A. 2471	9.2	19.3161	24.9058	15,772	W. 2353	8.0	3.2140	0.6202
14,433	A. 2350	8.8	13.0375	16.1963	14,799	W. 2267	8.8	19.5631	7.8862	15,888	W. 2358	8.2	3.5778	6.1547
14,188	W. 2165	8.8	13.9365	2.8188	14,813	W. 2268	9.0	19.5633	8.7666	16,054	A. 2582	9.0	4.0691	14.3633
14,572	A. 2360	8.8	15.4311	23.1812	15,014	A. 2475	8.5	20.2295	21.2549	15,773	W. 2361	9.0	4.3132	0.5642
14,502	A. 2361	8.4	15.4603	18.3896	14,878	A. 2477	8.9	20.7576	12.6122	15,949	W. 2369	8.0	6.7045	8.7420
14,351	W. 2171	8.0	15.5499	11.3422	15,106	A. 2485	9.0	21.8863	25.7115	16,012	A. 2591	8.9	6.7628	12.2045
14,163	W. 2175	8.1	16.6619	0.1201	14,776	W. 2273	7.7	22.0797	5.8081	15,812	W. 2372	9.3	7.0698	2.6921
14,417	A. 2368	5.0	17.2548	14.8153	15,089	A. 2487	8.7	23.5392	25.3195	15,777	W. 2373	9.0	7.5064	1.1237
14,192	W. 2179	8.2	17.3839	2.6385	14,740	W. 2274	8.2	23.6677	2.4455	15,916	W. 2375	8.4	8.3031	6.9554
14,439	A. 2374	8.8	19.2746	16.2764	15,090	A. 2488	9.1	23.7649	25.2841	15,935	W. 2378	8.8	9.5590	7.4119
14,354	A. 2375	8.9	19.3937	11.5856	R.A. 6^h 48^m					15,779	W. 2380	9.4	10.0517	0.3040
14,340	W. 2184	9.1	19.4674	11.1344	15,188	W. 2274	8.2	0.7262	2.4533	16,227	A. 2610	8.9	10.3627	21.7379
14,400	A. 2378	7.2	20.5775	14.1760	15,679	A. 2487	8.7	0.8445	25.3286	15,798	W. 2390	9.3	13.0650	1.3005
14,218	W. 2196	9.2	21.2957	3.7062	15,680	A. 2488	9.1	1.0698	25.2906	16,077	A. 2628	8.5	13.8575	14.9355
14,263	W. 2197	9.2	21.4382	6.3073	15,194	W. 2281	8.6	2.6296	2.8213	15,783	W. 2396	9.2	15.0489	0.8306
14,265	W. 2199	9.0	21.6360	6.4697	15,473	A. 2496	8.8	4.0601	15.4921	15,844	W. 2397	8.6	15.1499	4.0216
14,655	A. 2384	8.9	23.3033	25.9780	15,495	A. 2497	8.3	4.1190	17.1920	16,079	A. 2634	9.0	15.4164	14.8821
14,219	W. 2203	8.2	23.4037	3.4464	15,496	A. 2498	8.8	4.2767	16.6324	16,304	A. 2639	8.6	16.1594	25.7009
14,638	A. 2387	8.0	24.0384	25.0881	15,315	W. 2287	9.0	4.7110	8.3424	16,041	A. 2640	9.1	16.3855	12.8684
R.A. 6^h 40^m					15,277	W. 2291	8.6	5.4225	6.4498	15,762	W. 2401	8.9	16.7259	0.1673
15,074	A. 2387	8.0	1.3411	25.0916	15,545	A. 2506	9.2	6.5967	19.0655	15,921	W. 2405	7.8	17.3263	7.0070
14,823	W. 2209	8.4	3.0135	9.2432	15,199	W. 2293	9.2	6.6624	2.5953	15,847	W. 2406	8.8	17.4585	3.5349
14,842	A. 2392	9.0	3.7996	11.5292	15,218	W. 2294	7.4	6.7809	3.1109	16,081	A. 2644	8.9	17.5164	15.3281
14,781	W. 2212	8.0	4.7988	6.2758	15,157	W. 2298	6.8	6.9980	0.6267	15,942	W. 2409	8.6	17.6472	7.6849
14,844	W. 2215	9.2	5.5091	11.3715	15,547	A. 2510	9.0	7.1882	19.1191	15,966	W. 2415	9.0	19.3141	8.6300
14,904	A. 2403	8.6	5.8849	15.1321	15,501	A. 2513	9.2	8.2204	16.5732	15,897	W. 2416	7.9	19.4251	6.2431
14,825	W. 2219	9.0	6.0091	9.1218	15,521	W. 2303	8.8	8.3144	3.2282	16,309	A. 2649	8.8	19.6424	25.1846
15,077	A. 2405	9.0	6.3309	24.6716	15,351	W. 2304	8.4	8.8434	9.8800	16,086	A. 2654	8.6	20.3573	15.2909
14,754	W. 2221	9.1	6.8460	4.2801	15,502	A. 2519	8.8	9.2980	16.7881	15,923	W. 2423	9.4	20.4727	6.5438
15,078	A. 2408	9.1	7.0434	24.4509	15,660	A. 2520	7.5	9.4985	23.7532	..	A. 2662	8.8	21.7048	25.8232
14,923	A. 2411	8.9	7.2289	15.2887	15,392	W. 2307	8.2	10.0762	12.1364	16,288	A. 2664	8.7	22.4535	23.7419
15,079	A. 2413	8.8	7.3265	25.0576	15,201	W. 2309	8.4	11.5501	2.5012	15,879	W. 2429	9.0	22.6887	4.9541
14,826	W. 2223	9.0	7.5342	9.3222	15,203	W. 2310	9.3	11.8773	3.0856	15,881	W. 2431	9.0	23.5013	4.4836
14,794	W. 2228	9.2	9.2431	7.8034	15,551	A. 2525	9.0	12.1029	19.2171	16,068	A. 2676	8.8	24.6216	13.9633
14,906	A. 2424	9.1	9.7096	14.4076	15,554	A. 2531	9.2	13.8055	19.3143	15,857	W. 2434	8.6	24.6847	4.1342
15,097	A. 2426	8.3	9.8405	25.6158	15,225	W. 2315	9.4	14.5359	3.1695	15,767	W. 2435	9.2	24.9135	0.0423
14,716	W. 2231	9.0	10.2492	1.6966	15,283	W. 2316	8.6	14.6018	6.9890	R.A. 7^h 4^m				
14,890	A. 2430	8.9	10.9452	13.9873	15,666	A. 2534	8.8	15.1567	23.5533	16,881	A. 2676	8.8	1.8043	13.9611
14,702	W. 2234	9.2	10.9764	0.2825	15,667	A. 2537	6.0	15.6842	28.9204	16,496	W. 2434	8.6	1.7614	4.1322
14,941	A. 2431	8.7	12.3876	16.5631	15,643	A. 2538	6.3	15.8003	22.7313	16,352	W. 2435	9.2	1.9460	0.0385
14,831	W. 2236	6.2	12.7733	9.8940	15,606	A. 2539	8.9	15.8148	20.7100	16,675	W. 2439	8.7	2.6618	8.5437
14,956	A. 2432	9.1	12.8064	17.7128	15,508	A. 2541	8.6	16.1166	16.8697	17,324	A. 2677	8.6	2.7065	24.9875
14,868	A. 2439	9.0	13.9058	13.1312	15,529	A. 2547	8.7	17.6652	18.2896	16,591	W. 2444	8.9	3.5432	6.5278
15,067	A. 2441	7.3	14.0623	24.4074	15,375	W. 2321	8.6	17.7770	10.3542	16,358	W. 2451	9.2	4.8289	0.3092
14,758	W. 2240	8.6	14.1189	4.9639	15,461	A. 2549	9.0	17.9791	14.9382	17,086	A. 2691	8.9	5.3547	17.3635
15,084	A. 2443	9.3	14.1802	25.0245	15,377	W. 2327	8.2	19.2174	10.5032					
14,908	A. 2444	9.2	14.2241	14.5657	15,181	W. 2331	9.2	20.0853	1.8356					
14,807	W. 2242	9.4	14.2669	8.8077	15,182	W. 2334	7.8	21.0755	2.0640					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 7 ^h 4 ^m (continued)					R.A. 7 ^h 12 ^m (continued)					R.A. 7 ^h 20 ^m (continued)				
17,268	A. 2693	8.9	5.4678	22.5883	17,655	W. 2564	9.0	11.6755	9.7054	18,281	W. 2685	8.8	18.5081	8.6230
17,161	A. 2695	9.3	5.6858	19.7679	17,469	W. 2568	8.0	12.2774	2.4343	18,648	A. 2981	9.0	18.8667	19.6969
17,162	A. 2696	8.9	5.7605	19.8539	17,498	W. 2569	9.2	12.3327	3.4288	18,147	W. 2688	9.1	19.5079	2.4102
17,163	A. 2698	8.6	6.4673	19.7027	18,075	A. 2855	8.8	13.2302	25.4891	18,283	W. 2691	6.8	20.6524	8.9730
16,384	W. 2459	9.1	6.6158	1.7373	17,956	A. 2858	9.5	14.2229	20.6890	18,729	A. 2989	8.9	20.9815	22.2083
16,642	W. 2461	9.4	7.3405	7.7942	17,501	W. 2579	8.6	15.4338	3.0341	18,209	W. 2692	9.0	21.3594	5.1070
17,330	A. 2701	8.5	7.4252	24.6491	17,629	W. 2580	8.2	15.5976	8.1598	18,544	A. 2993	7.5	21.9556	16.4886
16,604	W. 2466	9.1	8.9394	6.5570	17,765	A. 2862	8.8	15.6123	14.0139	18,545	A. 2994	8.2	22.0684	16.5531
17,277	A. 2710	8.6	9.0551	22.4581	17,932	A. 2863	9.1	15.9535	19.4930	18,789	A. 3002	7.7	23.4516	24.0022
16,366	W. 2469	9.3	10.4231	0.7863	17,766	A. 2864	9.1	16.0648	13.2875					
16,558	W. 2474	9.0	12.0514	5.7960	17,957	A. 2868	8.2	16.2423	20.3746					
17,214	A. 2720	8.7	12.2139	20.4237	17,958	A. 2873	9.0	16.9137	20.6371					
17,280	A. 2723	8.6	12.8519	23.3795	17,935	A. 2876	9.2	18.1206	20.0613					
16,562	W. 2480	8.4	12.9618	5.7708	17,507	W. 2590	9.0	18.1316	3.7277					
17,132	A. 2725	6.9	13.1613	18.3391	17,451	W. 2592	9.2	18.7266	1.1034					
16,655	W. 2482	9.2	13.3805	7.1271	18,011	A. 2885	9.1	19.5105	22.5848					
16,779	W. 2483	8.8	13.4107	11.1546	17,718	W. 2597	8.6	20.2458	11.3702					
16,610	W. 2484	9.2	13.5242	6.7062	17,455	W. 2601	7.8	20.4173	1.3559					
16,952	A. 2731	8.6	13.9257	14.3372	17,719	W. 2602	8.8	20.7360	11.8932					
16,898	A. 2735	7.8	14.3498	13.2914	17,635	W. 2603	8.5	20.9792	8.8491					
16,614	W. 2493	9.4	15.4257	6.7191	17,803	A. 2892	9.2	21.0018	14.7175					
16,703	W. 2498	9.0	16.3911	8.2006	17,558	W. 2606	7.8	21.1498	5.1101					
17,339	A. 2743	7.5	16.4091	24.4577	17,918	A. 2898	8.7	22.3716	18.9418					
16,660	W. 2502	8.4	17.0174	7.4109	17,921	A. 2901	9.1	23.3357	18.3894					
16,753	W. 2504	9.1	17.3809	9.6480	17,663	W. 2615	8.4	24.0446	9.1946					
16,911	A. 2752	8.8	17.9478	13.6815	17,809	A. 2907	8.9	25.0360	14.5968					
17,137	A. 2753	6.8	17.9807	19.2852	18,096	A. 2909	8.2	25.2617	25.5311					
17,110	A. 2754	7.9	18.0841	17.6933										
17,342	A. 2757	7.4	18.1836	25.4517										
16,867	A. 2758	9.0	18.2744	13.1019										
17,003	A. 2759	8.6	18.4262	15.8501										
16,435	W. 2511	8.7	18.9566	2.8238										
17,254	A. 2761	8.9	19.1172	21.4109										
16,826	W. 2513	8.6	19.9223	11.6049										
16,439	W. 2515	8.9	21.1704	2.7339										
16,441	W. 2518	7.4	21.4805	3.0041										
16,875	A. 2774	9.2	21.8809	12.6804										
16,876	A. 2775	9.1	21.9520	12.3039										
17,319	A. 2779	8.8	22.3739	23.9825										
16,670	W. 2525	9.0	23.1585	7.1561										
17,072	A. 2783	8.0	23.6763	16.8152										
16,923	A. 2786	9.3	23.8831	13.5421										
R.A. 7 ^h 12 ^m					R.A. 7 ^h 20 ^m					R.A. 7 ^h 28 ^m				
17,846	A. 2783	8.0	0.8898	16.8231	18,293	W. 2615	8.4	1.1758	9.1987	19,558	A. 3002	7.7	0.7427	24.0122
17,755	A. 2786	9.3	1.0612	13.5478	18,445	A. 2907	8.9	2.2255	14.5900	19,007	W. 2703	9.1	3.4831	4.7282
18,020	A. 2799	8.9	3.6952	23.8624	18,835	A. 2909	8.2	2.5691	25.5207	19,465	A. 3012	7.4	3.5567	21.0509
17,621	W. 2542	8.6	4.6406	8.1568	18,558	A. 2910	9.3	2.6337	17.9644	18,960	W. 2707	8.0	3.9891	2.6714
17,928	A. 2803	9.2	4.8992	19.5721	18,600	A. 2916	8.7	4.1844	18.1949	19,037	W. 2711	8.2	4.7330	5.4234
17,902	A. 2807	8.9	5.1699	18.7120	18,393	A. 2919	9.1	4.8991	12.6611	19,326	A. 3019	8.9	4.8762	16.1135
17,542	W. 2544	9.0	5.2520	5.3386	18,741	A. 2920	8.8	5.1336	22.9732	19,010	W. 2713	8.8	5.0637	4.5038
17,785	A. 2811	8.9	6.0811	14.4021	18,529	A. 2923	8.9	5.9681	16.4272	19,327	W. 2715	9.2	5.2831	15.6918
17,930	A. 2816	9.1	6.5288	19.6478	18,360	W. 2632	9.3	6.0396	11.3063	19,011	W. 2718	8.7	5.6319	4.9119
17,674	W. 2548	9.0	6.5369	10.4964	18,263	W. 2633	8.6	6.2744	8.6528	19,186	W. 2719	8.6	5.8180	10.5252
17,994	A. 2817	8.8	6.6016	22.7188	18,742	A. 2925	5.6	6.8100	22.9234	19,328	A. 3027	8.6	6.9255	15.6876
17,995	A. 2818	8.2	6.6770	22.7515	18,265	W. 2636	8.3	6.9686	8.4589	18,964	W. 2725	9.3	7.0697	2.9902
17,996	A. 2820	9.2	7.0799	22.7684	18,801	A. 2926	8.6	7.2598	25.2146	18,965	W. 2727	8.6	7.4957	2.3651
17,825	A. 2821	8.5	7.1007	16.1660	18,744	A. 2929	8.9	7.7594	23.0765	19,133	W. 2728	9.0	7.6225	8.6405
17,404	W. 2556	9.4	8.4323	0.2940	18,218	W. 2638	8.7	7.9136	6.2306	19,263	A. 3031	9.0	8.4567	13.6279
17,970	A. 2833	9.2	8.9661	22.2472	18,268	W. 2642	8.8	8.5331	8.6148	19,508	A. 3033	8.4	8.9148	21.6408
17,973	A. 2842	9.0	10.8550	21.5429	18,245	W. 2645	8.0	9.4340	7.9330	19,070	W. 2736	8.7	9.1281	6.9540
17,952	A. 2843	9.2	10.9586	20.3836	18,220	W. 2646	9.2	9.5239	6.9012	19,190	W. 2737	9.0	9.2195	10.5807
17,953	A. 2844	9.0	11.5423	20.9009	18,457	A. 2939	8.8	10.0724	14.9168	19,071	W. 2740	8.6	9.5603	6.7218
					18,716	A. 2943	8.8	10.6232	21.7845	19,592	A. 3036	9.0	10.0432	24.5756
					18,247	W. 2654	8.9	11.0747	7.3834	18,909	W. 2742	8.9	10.5005	0.7367
					18,158	W. 2655	7.9	11.3789	3.6183	18,911	W. 2743	8.6	10.5489	0.8329
					18,461	A. 2953	8.0	12.5976	14.8523	18,913	W. 2744	9.4	10.6977	0.8633
					18,373	W. 2662	9.0	13.3945	11.6083	19,363	A.			

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 7^h 36^m					R.A. 7^h 44^m (continued)					R.A. 7^h 52^m (continued)				
19,860	W. 2800	8.6	0.8841	8.0883	20,732	W. 2936	9.0	6.1778	6.1756	21,783	W. 3082	9.0	23.6130	7.8340
19,651	W. 2803	8.9	0.8996	0.6753	20,823	W. 2939	9.0	6.5597	8.1509	21,840	W. 3083	8.2	23.9324	9.7852
19,744	W. 2808	9.4	1.4447	3.7807	21,177	A. 3213	8.9	7.0811	16.0991	21,810	W. 3086	8.3	24.4055	8.8953
20,306	A. 3097	9.0	1.8448	19.8939	21,535	A. 3217	8.9	8.1469	25.4586	21,726	W. 3087	9.3	24.6280	5.3429
20,374	A. 3099	8.7	2.7500	21.7823	20,670	W. 2950	9.2	9.9170	3.7636	R.A. 8^h 0^m				
20,307	A. 3100	9.1	2.9583	19.7586	20,909	W. 2954	9.2	10.6742	10.0112	22,533	W. 3081	8.9	0.6786	11.7790
20,309	A. 3107	9.1	4.0855	20.0569	21,349	A. 3235	9.1	12.0315	19.5961	22,426	W. 3082	9.0	0.7296	7.8431
20,157	A. 3109	8.7	4.2865	15.9099	21,574	A. 3236	8.5	12.1701	26.0008	22,480	W. 3083	8.2	1.0701	9.7903
19,749	W. 2829	9.2	5.2820	3.3535	21,387	A. 3237	9.3	12.3229	20.7111	22,457	W. 3086	8.3	1.5335	8.8953
19,715	W. 2832	9.2	6.3829	2.4885	20,673	W. 2958	9.1	12.8816	3.7798	22,379	W. 3087	9.3	1.7177	5.3409
20,285	A. 3121	7.4	9.2439	18.4026	21,540	A. 3239	9.0	13.0085	25.5377	22,794	A. 3370	8.6	3.4788	23.3152
20,000	W. 2841	9.2	9.5091	11.8295	20,638	W. 2962	8.4	13.7645	2.8947	22,676	A. 3374	7.9	4.7425	17.3815
20,034	A. 3123	9.1	9.9022	13.2166	21,512	A. 3243	7.5	13.8515	24.1038	22,644	A. 3378	9.0	5.7598	15.7655
19,904	W. 2849	7.9	10.5961	8.7005	20,919	W. 2963	9.3	13.8532	10.3378	22,356	W. 3100	9.2	5.8441	4.8499
19,906	W. 2852	9.2	11.1039	9.1298	20,969	W. 2965	8.8	14.2332	11.1347	22,679	A. 3382	9.1	6.2873	17.8257
20,417	A. 3127	9.0	11.7216	22.9524	20,608	W. 2966	9.2	14.8013	1.7794	22,386	W. 3106	9.0	7.7484	5.7803
19,757	W. 2853	8.6	11.8218	3.8324	20,575	W. 2971	6.9	16.3538	0.6855	22,332	W. 3111	9.4	9.6504	3.0694
19,662	W. 2855	9.0	11.9705	0.3286	21,437	A. 3248	8.8	16.7477	22.0623	22,661	A. 3393	8.1	9.6808	16.6630
20,201	A. 3131	9.0	12.6654	16.9223	..	W. 2973	9.0	16.8452	0.0754	22,358	W. 3116	9.2	11.0429	4.3924
20,323	A. 3132	8.6	12.7981	20.1925	21,398	A. 3249	9.0	16.8677	21.1904	22,840	A. 3397	9.0	11.3091	24.9250
19,910	W. 2859	9.4	12.9438	8.6562	20,977	W. 2976	8.6	17.5160	10.6026	22,260	W. 3121	9.2	12.1468	0.7737
19,940	W. 2860	9.3	12.9467	9.6933	21,403	A. 3257	8.6	19.1494	21.2652	22,393	W. 3124	7.5	13.0711	5.5863
20,006	W. 2871	9.2	14.9813	11.7445	21,404	A. 3259	9.3	19.8076	20.8974	22,777	A. 3405	7.6	13.1644	21.4017
20,494	A. 3143	8.7	15.1755	24.5349	21,405	A. 3260	9.3	19.8138	20.8781	22,418	W. 3132	9.0	14.3829	7.0369
20,390	A. 3144	8.7	15.2779	22.1305	21,073	A. 3264	7.2	20.5187	12.9293	22,264	W. 3134	9.2	14.8514	0.2386
20,460	A. 3149	8.8	15.7624	24.1698	21,583	A. 3270	9.0	21.8020	25.9757	22,497	W. 3139	8.9	15.2931	9.4032
20,131	A. 3154	9.0	17.1728	14.9544	21,584	A. 3272	9.0	22.2638	25.9804	22,602	A. 3416	9.0	15.4209	13.8347
19,691	W. 2878	9.4	17.7126	2.0142	21,120	A. 3273	8.2	22.3797	14.2385	22,624	A. 3419	8.6	15.6894	14.6164
20,048	A. 3157	8.7	17.7637	12.6860	21,075	A. 3274	8.8	22.4803	13.4249	22,526	W. 3143	9.2	16.4071	11.0014
20,497	A. 3158	8.7	17.8488	24.8611	20,653	W. 2995	8.9	22.6145	2.5791	22,606	A. 3421	8.5	16.9525	13.3044
20,050	W. 2884	9.4	18.3799	13.3220	21,482	A. 3279	9.0	23.0397	23.5565	22,575	A. 3423	9.1	17.0453	12.5569
20,436	A. 3161	8.1	18.4493	23.4498	20,802	W. 2999	8.3	23.5507	7.3242	22,780	A. 3426	9.5	17.6918	21.6815
19,733	W. 2893	9.4	19.5568	2.9774	20,938	W. 3003	8.8	24.1615	10.1545	22,781	A. 3428	8.7	17.7549	22.2674
19,849	W. 2895	9.0	19.7839	6.5113	R.A. 7^h 52^m					22,609	A. 3431	7.8	18.1233	14.0349
20,141	A. 3165	9.0	19.8391	15.1299	21,759	W. 2999	8.3	0.6618	7.3333	22,288	W. 3154	9.5	18.3085	1.7349
20,256	A. 3166	9.2	19.8715	18.2978	21,846	W. 3003	8.8	1.3031	10.1575	22,291	W. 3157	8.0	19.0871	1.1302
19,697	W. 2899	8.9	20.9816	1.4760	21,680	W. 3009	8.9	2.8039	4.0867	22,448	W. 3159	9.0	19.4461	7.6376
19,795	W. 2901	8.4	22.0233	4.9227	21,607	W. 3015	9.0	4.4626	0.5961	22,294	W. 3167	7.2	20.8597	1.9799
19,954	W. 2903	8.9	22.3764	9.5112	21,937	A. 3302	6.2	6.2818	13.8467	22,504	W. 3168	8.8	20.9889	9.8225
20,367	A. 3181	8.6	22.7755	21.2482	21,879	W. 3022	8.4	6.3803	11.4327	22,375	W. 3169	9.0	21.8819	4.7178
20,219	A. 3182	8.8	23.0420	17.4151	21,768	W. 3024	9.1	6.9321	7.5315	22,827	A. 3452	8.9	22.1581	23.6646
19,924	W. 2909	8.6	23.8179	8.5157	21,769	W. 3025	8.9	6.9816	7.4798	22,828	A. 3454	8.5	22.4338	23.4872
20,504	A. 3185	9.0	24.6933	25.2785	21,709	W. 3026	8.9	7.2001	5.5901	22,421	W. 3173	8.8	23.5688	6.9501
19,704	W. 2911	8.4	24.7927	1.6283	21,909	A. 3306	8.8	7.7646	12.9042	22,845	A. 3461	9.0	24.5363	25.2746
19,856	W. 2913	8.2	25.1176	6.4670	21,854	W. 3028	8.8	8.5327	10.6886	22,637	A. 3463	8.8	24.8671	14.2817
R.A. 7^h 44^m					22,152	A. 3311	6.5	10.2641	22.4008	22,849	A. 3470	5.3	25.9499	24.4716
20,847	W. 2909	8.6	0.9418	8.5228	22,153	A. 3313	9.1	10.6246	22.9883	R.A. 8^h 8^m				
20,585	W. 2911	8.4	1.8423	1.6255	21,686	W. 3043	9.2	12.3115	4.7980	23,019	W. 3173	8.8	0.6758	6.9592
21,530	A. 3185	9.0	1.9981	25.2747	21,717	W. 3045	9.0	12.9108	5.8408	23,412	A. 3461	9.0	1.8411	25.2725
20,766	W. 2913	8.2	2.2193	6.4600	22,111	A. 3323	9.1	13.6520	20.6154	23,185	A. 3463	8.8	2.0532	14.2768
20,767	W. 2918	8.8	3.0174	6.8339	21,824	W. 3054	8.8	15.6809	9.3159	23,416	A. 3470	5.3	3.2451	24.4534
20,951	W. 2920	9.0	3.9234	10.5354	22,181	A. 3329	8.1	16.3785	23.4746	22,918	W. 3183	8.6	3.5678	1.8506
21,055	A. 3192	9.1	3.9731	12.8020	21,826	W. 3060	8.8	16.4568	9.6967	22,997	W. 3187	9.0	4.9670	5.9678
21,259	A. 3195	8.8	4.0717	18.4767	22,207	A. 3333	8.2	17.4399	25.0082	23,166	A. 3475	9.0	4.9760	14.0000
21,453	A. 3198	9.0	4.4246	22.6508	21,747	W. 3062	8.9	17.6791	6.8021	23,167	A. 3482	9.0	5.6989	13.2569
20,594	W. 2929	9.2	5.0987	2.1125	21,894	W. 3066	8.5	18.5983	12.0244	23,069	W. 3195	8.8	6.4251	8.5359
20,596	W. 2929	9.2	5.0987	2.1125	22,042	A. 3343	9.0	19.1682	17.7292	23,126	W. 3196	8.7	6.8591	11.7650
21,134	A. 3200	8.6	5.2277	15.3634	22,228	A. 3347	8.2	20.5156	25.7660	22,921	W. 3197	9.0	7.0203	1.9128
21,385	A. 3202	8.1	5.9206	20.9443	21,615	W. 3077	9.2	22.6455	0.6804					
21,497	A. 3203	9.2	5.9705	24.1253	21,978	A. 3359	5.1	22.6556	14.5167					
20,731	W. 2935	9.0	6.1572	5.5678	21,900	W. 3081	8.9	23.5195	11.7697					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 8h 8m (continued)					R.A. 8h 16m (continued)					R.A. 8h 32m (continued)				
23,001	W. 3198	9.0	7.1116	5.2049	23,872	A. 3628	8.9	20.3275	17.7314	24,979	A. 3741	9.1	2.7478	22.0961
22,939	W. 3200	9.2	7.9971	2.1569	23,510	W. 3324	8.8	20.6228	0.3236	24,681	W. 3428	9.2	3.6687	2.6274
23,151	W. 3201	8.8	8.1623	12.5612	23,873	A. 3629	8.8	20.8604	17.5922	24,938	A. 3747	9.0	3.8904	19.1107
23,172	A. 3494	8.6	8.8437	13.6751	23,966	A. 3630	8.3	20.9678	20.5578	24,743	W. 3434	9.4	4.4614	6.2452
23,313	A. 3495	8.1	8.9579	21.1331	23,675	W. 3325	9.5	20.9691	10.0052	24,918	A. 3751	9.1	5.2994	18.2095
23,131	W. 3213	9.0	10.1223	12.0929	23,676	W. 3326	9.4	21.0310	10.0079	24,725	W. 3437	8.8	5.3242	5.7794
22,980	W. 3219	9.0	11.1101	4.2310	23,511	W. 3327	9.0	21.2992	0.8416	24,867	A. 3752	9.2	5.4886	14.1777
23,447	A. 3507	8.8	12.9249	25.8465	24,077	A. 3635	8.8	21.7892	25.0883	24,728	W. 3441	8.9	6.6903	5.5720
23,133	W. 3231	9.0	13.7183	12.2497	23,730	W. 3330	9.2	21.8121	12.0720	24,973	A. 3761	8.7	7.8567	20.4725
23,114	W. 3239	8.3	15.3189	11.0502	23,816	A. 3639	9.1	22.7643	16.0826	24,941	A. 3762	8.9	7.9154	18.4580
23,351	A. 3515	8.9	15.3699	21.6188	23,817	A. 3640	9.0	22.8057	16.3721	24,942	A. 3763	8.9	7.9458	18.6896
23,299	A. 3518	8.4	16.0129	19.6727	24,030	A. 3644	7.3	23.3627	22.7562	24,919	A. 3764	8.8	8.0875	17.8327
23,010	W. 3242	9.1	16.2056	5.4044	23,703	W. 3337	8.8	23.4188	11.0518	24,920	A. 3767	8.8	8.5361	18.1712
23,011	W. 3244	8.5	17.1015	5.3602	R.A. 8h 24m					24,974	A. 3769	9.0	8.5871	20.2954
23,115	W. 3245	9.0	17.1154	11.2433	24,443	A. 3649	8.7	2.8984	18.1395	24,981	A. 3775	8.9	9.5741	21.3583
23,323	A. 3525	8.7	17.4151	21.0664	24,185	W. 3350	7.2	4.6757	2.3723	24,982	A. 3778	9.1	10.7794	21.6836
23,033	W. 3250	8.9	18.7036	6.2939	25,537	A. 3659	8.6	5.4955	23.0389	24,921	A. 3780	8.9	11.3125	17.9501
23,354	A. 3529	9.0	19.7133	21.5016	24,573	A. 3662	9.1	5.8811	24.9516	24,922	A. 3783	9.0	11.6989	17.5575
22,912	W. 3252	8.0	19.8380	0.6879	24,320	W. 3353	9.1	6.1645	10.9300	24,671	W. 3452	8.8	12.7662	1.6165
23,015	W. 3253	8.7	19.9668	5.7381	24,293	W. 3355	8.0	6.5899	9.9341	24,791	W. 3453	8.6	12.9485	9.1010
22,968	W. 3254	9.0	20.0642	3.7037	24,575	A. 3669	9.1	7.4314	24.8472	24,764	W. 3456	8.8	14.0623	7.2655
23,143	W. 3259	9.2	22.0555	11.3575	24,541	A. 3674	9.2	7.9449	23.0280	24,910	A. 3790	7.5	14.2094	16.9831
23,304	A. 3536	8.7	22.0930	19.9897	24,467	A. 3675	8.4	7.9359	19.1117	24,684	W. 3459	8.8	14.9897	2.7732
22,932	W. 3260	9.2	22.9656	1.7050	24,324	W. 3359	8.2	8.0477	11.1364	24,873	A. 3793	9.2	15.7631	14.2465
23,056	W. 3261	8.2	23.2730	7.6342	24,448	A. 3676	9.0	8.2610	17.7578	24,793	W. 3464	8.6	16.6815	9.7425
23,018	W. 3264	9.0	23.6510	5.5823	24,498	A. 3677	9.2	8.5384	20.5842	24,855	A. 3795	9.0	16.8824	13.6739
23,359	A. 3542	9.8	24.3881	21.9042	24,326	W. 3360	9.1	8.6071	10.9868	24,658	W. 3466	8.9	17.6430	0.2207
23,334	A. 3543	8.8	24.4385	21.1645	24,228	W. 3368	8.8	11.8121	5.3390	24,858	A. 3806	8.7	18.9883	14.0722
23,221	A. 3544	9.1	24.5993	16.3031	24,205	W. 3370	8.9	11.9845	3.6253	24,659	W. 3478	9.0	19.9991	0.4115
R.A. 8h 16m					24,296	W. 3371	8.8	12.0121	9.4648	24,778	W. 3479	9.0	20.0195	8.5744
23,562	W. 3264	9.0	0.7433	5.5902	24,171	W. 3373	8.9	12.3466	1.9732	24,676	W. 3481	9.0	21.0021	1.7547
23,974	A. 3542	9.8	1.6565	21.9039	24,174	W. 3375	8.8	12.7452	1.7462	24,950	A. 3814	8.6	21.2904	19.0407
23,944	A. 3543	8.8	1.6989	21.1637	24,207	W. 3376	8.7	13.4844	3.3118	24,820	W. 3483	8.0	21.3686	11.9718
23,822	A. 3544	9.1	1.8072	16.3008	24,208	W. 3377	8.6	13.4916	3.3638	24,862	A. 3820	8.6	22.2016	14.1041
24,010	A. 3549	8.8	2.7206	23.3217	24,281	W. 3381	8.9	14.0064	8.5475	24,660	W. 3487	7.8	22.4714	0.3582
23,514	W. 3272	9.0	3.5357	1.9473	24,246	W. 3384	9.1	14.8769	6.5320	24,739	W. 3488	9.1	22.6773	5.2578
23,884	A. 3557	9.1	4.5866	18.7540	24,472	A. 3700	9.2	15.0531	18.6404	24,822	W. 3491	9.0	23.2271	11.7160
23,950	A. 3558	8.1	4.7363	20.7691	24,229	W. 3385	8.6	15.5594	5.8463	24,898	A. 3823	9.1	23.2844	16.1746
24,013	A. 3560	9.0	5.0292	22.7714	24,454	A. 3703	7.8	15.8634	18.0903	24,694	W. 3495	9.0	23.9660	2.2537
23,827	A. 3561	8.7	5.3711	17.0524	24,358	W. 3389	9.2	16.4058	12.3848	25,012	A. 3827	9.0	24.0985	24.3642
23,778	A. 3565	9.0	5.8809	14.6374	24,179	W. 3392	9.2	17.5197	1.7310	24,999	A. 3829	8.7	24.3572	23.1520
23,979	A. 3572	9.2	7.8014	21.4788	24,359	W. 3393	8.0	17.5268	13.1499	24,839	W. 3497	9.2	24.5987	12.5210
23,660	W. 3285	9.2	8.5296	9.2202	24,579	A. 3715	8.7	19.2827	25.3048	24,808	W. 3500	8.9	24.9566	10.5522
23,715	W. 3287	9.2	8.8997	12.1210	24,307	W. 3397	9.0	19.3290	9.6541	24,900	A. 3833	9.0	25.1160	15.8142
23,980	A. 3580	9.1	9.1278	21.8279	24,196	W. 3398	8.8	19.4816	2.5509	24,662	W. 3503	8.7	25.3707	0.8431
23,783	A. 3583	8.4	9.4984	14.8479	24,308	W. 3400	9.0	19.4991	10.2448	R.A. 8h 40m				
23,743	W. 3292	9.0	10.7111	12.4052	24,383	A. 3717	8.7	20.7620	14.1641	25,076	W. 3495	9.0	1.0224	2.2586
23,691	W. 3293	9.2	11.0758	10.6335	24,424	A. 3718	9.0	20.7761	15.4924	25,320	A. 3827	9.0	1.3934	24.3670
23,621	W. 3299	9.5	13.1411	7.3219	24,408	A. 3719	9.0	20.8614	14.8977	25,309	A. 3829	8.7	1.6390	23.1520
23,646	W. 3301	9.2	13.5212	9.1637	24,477	A. 3720	8.3	20.8555	18.5323	25,203	W. 3497	9.2	1.7658	12.5190
24,068	A. 3599	8.3	13.8470	24.5353	24,387	A. 3728	7.1	22.8447	13.6012	25,186	W. 3500	8.9	2.1025	10.5461
23,520	W. 3303	8.4	14.0184	1.5145	24,553	A. 3731	9.1	23.3930	23.2343	25,235	A. 3833	9.0	2.3186	15.8063
23,986	A. 3601	9.0	14.3555	22.2376	24,270	W. 3416	9.2	23.7572	7.9677	25,051	W. 3503	8.7	2.4117	0.8342
23,929	A. 3602	9.0	14.3577	20.2330	24,220	W. 3421	8.9	24.7011	4.4567	25,312	A. 3837	8.7	3.9169	22.8423
24,093	A. 3604	9.1	14.9869	25.9492	24,429	A. 3738	8.9	24.8465	15.8347	25,205	W. 3508	9.0	4.9733	12.6597
23,575	W. 3308	9.2	15.2084	6.0544	R.A. 8h 32m					25,063	W. 3509	8.4	5.8585	1.8829
24,095	A. 3606	9.0	15.4317	25.9130	24,756	W. 3416	9.2	0.8754	7.9747	25,350	A. 3846	9.3	7.6390	25.5744
23,766	A. 3611	9.2	16.1559	13.4136	24,712	W. 3421	8.9	1.7812	4.4539	25,148	W. 3517	9.3	9.4227	7.6882
23,555	W. 3316	6.4	16.9361	4.2116	24,885	A. 3738	8.9	2.0494	15.8298	25,098	W. 3521	9.2	10.2920	4.5428
23,651	W. 3317	8.6	17.5314	8.9634						25,068	W. 3528	9.1	11.5434	1.1065
23,936	A. 3619	9.1	18.1427	19.7270						25,100	W. 3530	9.6	11.7809	4.9046
23,524	W. 3318	9.6	18.2272	1.5245						25,159	W. 3531	8.4	12.5254	8.7807

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.
R.A. 8^h 40^m (continued)					R.A. 8^h 56^m (continued)					R.A. 9^h 12^m (continued)				
25,308	A. 3864	8.4	12.7168	21.6401	25,632	W. 3663	8.7	20.2157	4.1073	26,538	A. 4138	8.9	17.7875	25.6161
25,227	A. 3874	9.1	15.5180	14.9383	25,633	W. 3665	8.7	20.2727	4.1966	26,286	W. 3762	9.2	18.8219	10.4309
25,135	W. 3537	9.2	16.1300	6.5324	25,716	A. 4015	9.1	20.4798	18.1419	26,120	W. 3768	9.2	21.3006	0.2298
25,057	W. 3540	9.0	17.2149	0.1624	25,711	A. 4016	9.2	20.5821	17.2450	26,260	W. 3769	9.2	21.3269	8.9009
25,317	A. 3882	8.7	17.8491	22.4094	25,616	W. 3666	9.3	20.8427	1.9399	26,142	W. 3770	9.4	21.5058	1.5603
25,152	W. 3542	9.3	19.1939	7.9781	25,717	A. 4017	9.1	21.1238	17.8363	26,271	W. 3772	8.9	22.4486	10.1832
25,257	A. 3888	6.5	19.2651	17.7073	25,624	W. 3668	7.5	21.9353	2.2191	26,348	A. 4149	8.2	22.8081	14.4159
25,273	A. 3894	8.6	20.7810	18.5381	25,625	W. 3669	9.0	22.1261	3.0101	26,437	A. 4152	8.8	23.4072	19.3077
25,252	A. 3896	8.6	21.5722	17.1340	25,702	A. 4023	8.8	22.8097	14.7980	26,563	A. 4154	8.9	23.5985	26.0281
25,300	A. 3903	8.2	23.7806	20.9257	25,634	W. 3673	9.0	23.2602	4.5669	26,122	W. 3775	8.3	23.8604	1.0285
25,168	W. 3551	8.2	24.1980	9.1073						26,290	W. 3778	8.8	24.6703	10.7363
25,344	A. 3907	8.9	24.4524	25.4930										
R.A. 8^h 48^m					R.A. 9^h 4^m					R.A. 9^h 20^m				
25,544	A. 3903	8.2	1.0385	20.9321	26,062	A. 4031	8.7	2.7514	24.1082	26,607	W. 3775	8.3	0.9036	1.0344
25,475	W. 3551	8.2	1.3283	9.1093	26,083	A. 4034	9.0	3.4591	25.7523	26,858	A. 4154	8.9	0.9114	26.0366
25,580	A. 3907	8.9	1.7595	25.4918	25,803	W. 3676	8.2	3.4800	0.3099	26,713	W. 3778	8.8	1.8182	10.7333
25,468	W. 3554	8.7	3.2864	8.4791	25,966	A. 4038	8.8	4.7247	5.7407	26,640	W. 3782	8.8	3.9258	4.8576
25,532	A. 3914	9.0	4.3771	18.8023	26,063	A. 4040	8.6	5.9552	24.2056	26,805	A. 4159	8.7	3.9717	19.2528
25,489	W. 3560	9.1	4.8339	11.1637	25,851	W. 3682	8.6	6.2288	5.2584	26,641	W. 3783	8.5	4.9333	4.9730
25,481	W. 3561	9.0	4.8508	10.2562	26,064	A. 4042	8.5	6.9847	23.5958	26,661	W. 3785	8.0	6.7792	6.6045
25,565	A. 3917	8.7	5.2004	23.3582	25,918	W. 3687	7.5	8.1321	10.6008	26,688	W. 3788	9.3	7.0072	8.1123
25,556	A. 3919	8.8	5.4593	23.1377	25,865	W. 3688	9.0	8.4065	6.4972	26,610	W. 3791	8.4	8.0207	1.8322
25,418	W. 3563	9.0	5.8021	2.1831	25,991	A. 4051	9.0	10.1555	16.6137	26,677	W. 3792	9.3	8.3455	7.4049
25,482	W. 3564	9.0	6.2299	10.5503	25,905	W. 3692	9.0	11.4737	9.2175	26,850	A. 4176	8.6	9.2319	24.9895
25,450	W. 3565	8.6	6.4706	7.0725	25,867	W. 3693	8.2	11.5529	6.5619	26,644	W. 3795	9.0	10.5168	4.8794
25,495	A. 3924	9.2	7.8558	13.0909	25,869	W. 3696	9.2	12.2363	6.3315	26,843	A. 4183	9.2	10.8592	23.7914
25,496	W. 3573	9.2	8.5698	12.7440	26,089	A. 4060	9.0	12.9192	25.7257	26,612	W. 3797	8.9	11.5610	1.7064
25,426	W. 3578	9.4	10.7945	3.8129	25,922	W. 3702	8.8	14.1700	10.8266	26,746	A. 4184	8.8	12.0624	13.2772
25,519	A. 3937	8.3	12.1576	15.8729	25,844	W. 3704	8.9	14.2815	4.4653	26,696	W. 3802	8.0	13.6289	8.9264
25,498	W. 3582	8.8	12.7365	12.6413	25,938	W. 3705	6.0	14.3021	12.0867	26,698	W. 3810	9.0	15.9118	9.0980
25,499	W. 3586	9.2	13.8812	12.9212	26,078	A. 4064	8.0	14.4983	25.1956	26,632	W. 3812	9.5	15.9923	4.0288
25,454	W. 3589	9.3	14.7026	6.8078	25,993	A. 4067	9.0	15.0592	16.7377	26,681	W. 3814	7.4	16.6583	7.1885
25,404	W. 3592	8.0	15.8314	0.7716	26,035	A. 4068	8.6	16.2196	20.6239	26,764	A. 4204	8.8	18.8858	15.0500
25,538	A. 3953	8.3	18.0013	18.8079	25,984	A. 4070	8.1	16.6038	15.9209	26,827	A. 4206	7.1	19.1785	21.6726
25,435	W. 3598	9.3	18.0744	4.6464	25,858	W. 3716	8.2	19.1964	5.7835	26,800	A. 4207	9.0	19.2801	18.7277
25,570	A. 3958	8.7	19.8069	23.8998	26,097	A. 4082	8.5	19.8619	25.9077	26,710	W. 3822	8.8	19.7009	10.1327
25,529	A. 3960	7.9	19.9084	18.1909	25,882	W. 3719	9.0	20.3667	7.5159	26,829	A. 4212	9.0	20.8388	21.4808
25,492	W. 3603	7.2	20.4573	11.3282	26,074	A. 4090	8.8	25.1916	24.3334	26,703	W. 3830	8.9	21.9918	8.1835
25,493	W. 3605	8.0	20.5818	11.5179	25,930	W. 3727	9.0	25.2680	10.8213	26,738	W. 3835	8.5	24.7207	12.3872
25,547	A. 3962	9.0	21.3532	20.4117	25,999	W. 3729	9.1	25.3942	16.8056	26,684	W. 3838	9.2	25.1843	7.8938
25,416	W. 3619	7.7	25.0806	1.6269										
25,473	W. 3620	8.1	25.1170	8.8279										
R.A. 8^h 56^m					R.A. 9^h 12^m					R.A. 9^h 28^m				
25,613	W. 3619	7.7	2.1300	1.6210	26,273	W. 3727	9.0	2.4167	10.8121	27,106	W. 3835	8.5	1.8864	12.3842
25,651	W. 3620	8.1	2.2442	8.8208	26,509	A. 4090	8.8	2.4861	24.3239	27,028	W. 3838	9.2	2.3015	7.8858
25,652	W. 3622	8.5	3.9975	8.9225	26,395	W. 3729	9.1	2.6080	16.7947	26,979	W. 3839	9.0	2.7929	5.3841
25,742	A. 3978	8.7	4.6604	22.0487	26,405	A. 4092	8.9	2.8313	17.7161	26,997	W. 3842	9.0	3.2445	5.7019
25,604	W. 3624	9.0	5.0913	0.1244	26,264	W. 3731	9.1	3.6321	10.3423	26,923	W. 3843	7.9	3.6824	1.8355
25,723	A. 3981	7.8	5.2403	19.0421	26,333	A. 4093	8.9	4.3701	14.3927	27,295	A. 4224	8.6	4.5945	21.5588
25,605	W. 3629	8.2	7.1960	0.6026	26,376	A. 4103	7.0	6.5845	16.1512	27,176	A. 4225	9.0	4.5944	14.8671
25,636	W. 3634	8.6	8.5504	5.4872	26,251	W. 3740	9.2	8.3973	9.2801	27,362	A. 4229	9.0	5.4196	25.7698
25,631	W. 3637	9.4	10.1092	4.9045	26,238	W. 3741	8.4	8.8961	7.5808	27,177	A. 4230	9.1	5.4556	15.5823
25,749	A. 3990	6.8	10.4364	22.7920	26,340	A. 4110	9.0	10.0525	13.5981	26,947	W. 3846	8.7	5.7978	3.0281
25,670	W. 3644	9.4	12.6735	11.0710	26,299	W. 3745	9.4	12.0863	11.4708	26,924	W. 3850	9.2	7.2290	1.8397
25,753	A. 3995	8.1	12.7010	23.7709	26,516	A. 4116	9.0	12.1551	24.0334	26,949	W. 3852	9.3	8.0956	2.3882
25,687	W. 3646	9.0	13.5261	12.4644	26,537	A. 4119	8.1	12.4947	25.4985	27,136	W. 3854	8.2	9.4949	12.7295
25,755	A. 4000	8.7	14.6738	24.3995	26,173	W. 3748	8.9	13.2899	3.9875	26,071	W. 3856	9.5	10.4820	10.1731
25,699	A. 4004	9.2	16.3562	14.2910	26,302	W. 3756	9.3	16.8696	11.8762	26,908	W. 3861	9.0	11.4769	0.3816
25,692	A. 4007	9.2	17.2691	13.6066	26,501	A. 4134	9.0	17.2735	22.9005	27,369	A. 4250	8.7	12.0199	25.2321
					26,285	W. 3757	8.0	17.3578	10.9385	27,351	A. 4251	6.5	12.1298	24.5066

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 9^h 28^m (continued)					R.A. 9^h 44^m (continued)					R.A. 10^h 8^m				
26,910	W. 3862	9.0	12.4175	0.8803	28,154	W. 3967	8.5	14.1643	12.6983	29,635	A. 4519	8.8	0.7493	16.1817
26,985	W. 3864	8.8	13.0697	4.5009	28,163	W. 3968	8.2	14.1667	13.3623	29,559	W. 4083	9.0	1.2329	13.2002
27,090	W. 3866	9.6	14.6036	10.9226	28,137	W. 3969	8.6	15.1816	11.2401	29,487	W. 4085	8.8	2.7082	9.3741
27,252	A. 4257	8.6	14.6830	18.2791	28,171	A. 4414	7.9	19.9140	15.3091	29,488	W. 4086	7.8	2.9333	8.7982
..	W. 3868	9.0	15.4170	0.1211	28,071	W. 3980	9.0	20.7322	2.3362	29,503	W. 4088	9.0	4.2310	10.3045
27,371	A. 4264	8.7	15.6589	25.6355	28,247	A. 4419	9.0	21.4339	24.8877	29,654	A. 4529	8.1	5.0395	17.4927
27,270	A. 4268	9.1	16.7768	19.5937	28,079	W. 3985	9.2	23.0364	4.1142	29,588	A. 4530	7.3	6.7183	14.3454
27,308	A. 4269	8.6	17.0786	20.9225	28,057	W. 3988	8.4	23.9384	0.5457	29,639	A. 4531	8.7	7.1598	15.7175
27,283	A. 4272	8.9	17.3229	20.0701	28,214	A. 4422	9.1	24.1417	21.5594	29,785	A. 4535	9.0	8.1770	23.5389
27,213	A. 4274	8.3	17.9512	16.6949	28,150	W. 3991	9.0	24.4833	11.4224	29,455	W. 4096	9.0	8.4734	6.9980
27,039	W. 3872	9.1	17.9550	7.5476	28,126	W. 3990	9.2	24.3255	8.5267	29,383	W. 4097	8.2	8.6937	2.7159
27,355	A. 4279	9.0	19.2076	24.3234	28,142	W. 3993	9.0	24.8399	10.6346	29,676	A. 4538	6.4	8.8524	18.5463
27,191	A. 4292	8.3	23.2500	15.3185	R.A. 9^h 52^m					29,530	A. 4098	8.8	8.8980	10.5383
27,191	W. 3886	8.6	23.6584	0.2734	28,301	W. 3988	8.4	0.9764	0.5516	29,824	A. 4548	8.4	11.6122	25.7049
27,271	A. 4299	8.9	24.4365	19.5974	28,688	A. 4422	9.1	1.4064	21.5618	29,790	A. 4550	9.1	12.5055	23.3232
R.A. 9^h 36^m					28,434	W. 3990	9.2	1.4496	8.5277	29,739	A. 4551	6.7	12.6864	20.8671
27,401	W. 3886	8.6	0.6935	0.2822	28,493	W. 3991	9.0	1.6386	11.4214	29,573	W. 4114	9.2	14.5795	13.2969
27,844	A. 4299	8.9	1.6801	19.5968	28,473	W. 3993	9.0	1.9868	10.6305	29,595	A. 4555	8.9	15.4812	14.2982
27,672	W. 3889	8.6	3.5829	12.8885	28,394	W. 3996	7.6	3.4008	6.4837	29,742	A. 4556	8.7	15.7399	21.1529
27,850	A. 4304	7.7	5.4173	19.7369	28,743	A. 4427	8.2	4.0561	25.1859	29,441	W. 4118	9.0	17.1120	5.8707
27,724	A. 4305	9.2	5.5486	15.1465	28,305	W. 3997	8.9	4.3285	1.2748	29,476	W. 4119	9.4	17.2109	7.4489
27,822	A. 4308	8.2	6.2117	19.3968	28,476	W. 3999	8.4	5.5947	10.5402	29,478	W. 4120	9.0	18.7168	8.4605
27,755	A. 4310	9.2	6.2803	15.6121	28,344	W. 4003	9.2	6.9419	2.7374	29,690	A. 4565	8.2	20.9395	18.2624
27,599	W. 3901	8.4	8.0745	9.7893	28,655	A. 4435	5.8	7.7471	19.4340	29,553	W. 4123	9.2	21.3408	12.1418
27,444	W. 3902	7.8	8.1168	3.0800	28,462	W. 4005	9.0	7.8114	8.9041	29,630	A. 4568	8.6	22.5237	15.6224
27,632	W. 3903	8.5	9.1556	11.3200	28,307	W. 4008	7.8	9.6485	0.9476	..	W. 4125	8.4	22.8234	0.0779
27,583	W. 3906	8.4	10.2645	8.3857	28,440	W. 4009	9.0	10.1486	8.6368	29,770	A. 4571	7.1	23.7102	22.7488
27,826	A. 4323	8.9	10.6696	18.7998	28,310	W. 4013	9.0	12.9072	0.8348	29,537	W. 4129	8.7	24.3058	10.7866
27,706	A. 4328	8.6	12.7595	13.7303	28,584	A. 4450	9.1	13.6023	15.2261	R.A. 10^h 16^m				
27,686	A. 4329	8.5	12.8170	13.3753	28,347	W. 4017	8.7	13.8855	2.6167	30,097	A. 4571	7.1	0.9878	22.7560
27,522	W. 3915	9.1	14.2313	6.1382	28,312	W. 4021	9.4	14.9832	0.5362	29,952	W. 4129	8.7	1.4542	10.7876
27,406	W. 3916	8.4	14.3917	0.1533	28,590	A. 4463	8.0	21.5333	15.2440	29,878	W. 4131	9.1	2.9932	3.7297
27,600	W. 3917	8.4	15.3135	13.3578	28,354	W. 4033	8.9	22.7310	2.9109	30,123	A. 4577	8.7	3.7194	24.9481
27,523	W. 3918	8.8	15.5027	6.1575	28,388	W. 4036	8.4	23.3348	5.2227	29,864	W. 4132	8.8	3.8357	1.4627
27,455	W. 3919	9.1	15.7865	2.9393	28,571	A. 4468	9.3	23.3827	14.8054	29,962	W. 4133	9.0	3.9267	12.6279
27,499	W. 3920	8.4	16.2137	5.1334	R.A. 10^h 0^m					30,045	A. 4581	9.2	4.8270	18.4824
27,544	W. 3922	9.1	16.7574	6.6850	29,059	A. 4473	8.4	3.8148	13.7223	29,865	W. 4134	9.3	6.8073	1.5099
27,784	A. 4342	8.9	17.8496	16.9044	28,908	W. 4044	8.0	5.1145	7.1455	29,924	W. 4135	8.8	7.7383	8.2446
27,435	W. 3929	9.0	18.7944	1.3349	29,199	A. 4479	8.8	6.2960	19.8155	..	W. 4137	9.5	8.6944	0.0260
27,742	A. 4345	8.9	18.9418	15.3872	28,888	W. 4051	9.2	7.7446	5.9753	29,851	W. 4138	8.9	8.7818	0.6710
28,004	A. 4351	8.6	19.8168	25.7992	29,039	W. 4053	8.8	8.6268	13.1361	30,018	A. 4589	8.6	9.0362	16.4058
27,414	W. 3932	8.4	21.3418	0.7114	29,161	A. 4485	8.7	10.6629	17.8084	30,048	A. 4599	9.0	12.1060	18.5113
28,006	A. 4359	8.3	22.6505	25.8816	29,042	W. 4058	9.2	10.6700	13.1296	30,069	A. 4600	7.3	12.9749	19.6019
27,986	A. 4366	8.5	24.7230	24.9487	28,954	W. 4060	7.9	10.8741	8.4025	29,915	W. 4147	6.0	13.9109	6.7676
27,481	W. 3938	8.0	24.8455	3.9938	28,958	W. 4061	7.8	10.9432	8.4072	29,869	W. 4148	8.9	14.0114	2.0837
27,482	W. 3941	9.3	25.1480	3.6316	29,282	A. 4488	9.0	11.7770	24.4818	29,916	W. 4154	8.0	16.3519	7.3637
R.A. 9^h 44^m					29,283	A. 4491	8.4	12.1301	24.1328	29,856	W. 4155	9.4	17.4650	0.9092
28,074	W. 3938	8.0	1.9207	3.9899	28,915	W. 4063	8.0	12.4915	6.4452	29,871	W. 4156	9.2	17.7050	1.9952
28,241	A. 4366	8.5	2.0243	24.9444	28,984	W. 4064	9.2	13.0895	9.6673	30,129	A. 4612	8.2	18.6031	24.1438
28,075	W. 3941	9.3	2.2193	3.6264	29,263	A. 4505	8.7	18.3637	22.8449	30,104	A. 4613	9.1	19.1915	22.0857
28,095	W. 3945	9.2	4.2679	6.7701	29,264	A. 4506	8.5	18.3812	22.8703	29,860	W. 4163	9.1	21.8309	0.4446
28,174	A. 4374	8.3	4.7229	15.8912	28,806	W. 4071	7.8	19.0626	0.4864	30,119	A. 4622	9.0	22.6408	23.9634
28,195	A. 4386	8.5	11.2199	18.4452	28,807	W. 4072	8.6	19.6256	0.9719	..	W. 4165	8.5	22.6968	0.1401
28,145	W. 3957	8.5	11.2473	11.9283	28,808	W. 4077	9.2	21.0648	0.8642	30,085	A. 4625	8.3	23.8301	20.0492
28,168	A. 4387	9.1	11.3376	14.8163	29,329	A. 4515	8.6	22.5760	25.9326	30,003	W. 4167	neb.	24.2770	14.6638
28,091	W. 3960	9.1	11.4634	5.5483	29,029	W. 4080	8.9	23.2048	12.1890	R.A. 10^h 24^m				
28,233	A. 4393	7.8	13.2399	23.1697	29,126	A. 4519	8.8	23.5428	16.1723	30,444	A. 4625	8.3	1.0785	20.0553
28,069	W. 3966	9.0	14.0294	2.4035	29,049	W. 4083	9.0	24.0584	13.1961	30,373	W. 4167	Var.	1.4673	14.6648
										30,327	W. 4173	8.8	4.3519	12.1449

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.
R.A. 10^h 24^m (continued)					R.A. 10^h 40^m (continued)					R.A. 11^h 4^m				
30,236	W. 4177	8.6	5.8122	3.8796	31,098	A. 4744	8.7	9.0821	17.1145	32,115	A. 4880	8.8	6.0111	16.0677
30,237	W. 4178	8.8	6.3078	3.2244	31,132	A. 4747	8.3	11.5400	20.4021	32,130	A. 4884	9.3	6.9748	16.9815
30,249	W. 4180	8.8	6.3941	4.2503	30,974	W. 4291	9.1	17.6920	7.2632	32,054	W. 4400	9.3	8.0880	11.0628
30,225	W. 4182	8.7	7.5006	2.2232	31,105	A. 4758	7.4	17.7460	17.1667	32,003	W. 4403	8.6	8.5953	4.1231
30,309	W. 4184	8.6	8.1716	9.9751	31,039	W. 4295	9.4	18.7238	12.2397	32,030	W. 3407	9.0	11.5966	7.8724
30,315	W. 4186	8.0	8.9852	10.3278	31,129	A. 4762	9.2	19.7053	19.4129	32,202	A. 4895	8.9	12.3680	21.0195
30,473	A. 4644	9.2	9.8580	21.7972	31,006	W. 4299	9.0	19.8481	8.5151	32,005	W. 4410	9.4	12.3870	4.7110
30,449	A. 4645	8.9	10.0010	19.8352	31,150	A. 4767	8.6	22.9011	21.4483	32,235	A. 4900	6.7	13.0166	23.4965
30,431	A. 4646	8.8	10.3491	19.5522	31,058	W. 4313	9.4	25.2498	12.8876	32,135	A. 4904	8.6	13.6427	16.7704
30,508	A. 4650	6.4	12.4360	25.1590	R.A. 10^h 48^m					32,021	W. 4412	9.7	14.3747	6.2466
30,365	A. 4658	9.0	14.1712	13.8153	31,416	W. 4313	9.4	2.4208	12.8783	31,972	W. 4414	8.8	16.3223	1.2917
30,500	A. 4659	8.9	14.6643	23.8516	31,333	W. 4318	9.2	6.0161	7.3474	32,067	W. 4415	9.6	17.1900	12.2547
30,311	W. 4199	8.8	15.1174	9.7920	31,377	W. 4322	8.0	7.8723	10.6347	32,104	A. 4914	8.8	17.6596	14.3794
30,418	A. 4663	8.6	16.0645	18.0980	31,255	W. 4323	8.8	7.9725	0.4854	31,986	W. 4418	8.9	18.5648	2.8135
30,228	W. 4202	9.0	17.1716	2.9373	31,523	A. 4779	9.3	8.1929	19.9209	32,106	A. 4919	8.4	20.5645	14.3339
30,257	W. 4203	9.0	17.1891	5.2042	31,494	A. 4781	9.0	8.4305	18.2141	32,107	A. 4921	9.5	20.8241	14.3379
30,423	A. 4672	8.4	19.2959	18.1970	31,339	W. 4324	9.3	9.2589	6.7266	31,964	W. 4423	8.9	22.4765	0.0749
30,215	W. 4204	8.9	19.3797	1.8235	31,286	W. 4327	9.2	9.4539	2.9891	32,079	W. 4424	7.2	23.1148	12.4910
30,334	W. 4205	9.2	19.9220	11.8390	31,478	A. 4785	8.6	11.5260	17.3290	32,159	A. 4927	8.9	23.4158	18.3125
30,456	A. 4680	8.9	21.8402	20.4647	31,439	A. 4787	8.5	11.9797	14.2766	32,016	W. 4427	9.0	23.4478	5.2472
30,320	W. 4211	9.0	22.0002	10.5954	31,561	A. 4789	9.9	12.2134	23.0535	32,108	A. 4928	7.9	23.4854	14.6082
30,259	W. 4212	9.3	22.1407	5.1637	31,301	W. 4332	9.2	12.3782	4.0066	32,001	W. 4429	9.1	23.8586	3.9929
30,440	A. 4683	8.6	23.1005	19.4678	31,525	A. 4796	9.0	15.0401	20.2876	32,047	W. 4431	8.2	25.1541	8.4214
30,465	A. 4684	8.4	24.0685	21.2522	31,564	A. 4797	9.0	15.3915	23.7991	R.A. 11^h 12^m				
R.A. 10^h 32^m					31,527	A. 4801	9.1	16.9322	20.9129	32,387	A. 4928	7.9	0.6751	14.6181
30,805	A. 4684	8.4	1.3298	21.2555	31,550	A. 4804	8.7	18.6586	22.5108	32,328	W. 4429	9.1	0.9338	3.9988
30,660	W. 4216	9.1	2.7140	10.2559	..	W. 4342	9.2	18.8931	0.2273	32,361	W. 4431	8.2	2.2770	8.4136
30,607	W. 4218	8.5	4.4716	4.7519	31,553	A. 4810	8.7	21.0434	22.8646	32,302	W. 4438	9.4	3.5400	0.9841
30,608	W. 4219	8.7	4.7063	4.4905	31,586	A. 4814	8.7	22.3954	24.8753	32,449	A. 4935	9.0	4.7914	25.2970
30,673	W. 4223	9.0	7.1930	10.6929	31,447	A. 4817	8.9	23.6198	14.6459	32,450	A. 4936	8.6	6.0217	24.8702
30,717	W. 4227	7.4	9.5686	13.6254	31,348	W. 4350	9.2	23.7292	6.6232	32,395	A. 4939	8.5	7.2505	16.0437
30,650	W. 4232	9.0	12.1169	8.4087	31,412	W. 4353	8.8	24.3336	12.5332	32,463	A. 4940	8.4	7.7042	25.7436
30,679	W. 4233	9.0	12.6393	11.3876	31,370	W. 4354	9.0	24.5864	9.2749	32,405	A. 4942	9.5	7.7650	18.4438
30,774	A. 4710	9.1	13.9533	18.4976	R.A. 10^h 56^m					32,303	W. 4446	8.8	8.1995	0.3737
30,828	A. 4713	8.8	15.0526	23.0460	31,810	A. 4817	8.9	0.8098	14.6544	32,442	A. 4944	9.0	8.6672	23.7693
30,609	W. 4237	8.9	15.2534	4.6160	31,702	W. 4350	9.2	0.8328	6.6312	32,452	A. 4950	8.4	10.7126	25.6296
30,600	W. 4238	8.8	16.0125	3.5861	31,772	W. 4353	8.8	1.5008	12.5342	32,398	A. 4957	9.0	14.3209	16.2777
30,611	W. 4239	8.2	17.8316	5.3941	31,733	W. 4354	9.0	1.7185	9.2729	32,312	W. 4455	8.8	16.2992	1.3594
30,888	A. 4720	8.7	18.7060	25.9727	31,744	W. 4357	8.8	2.9318	10.1010	32,320	W. 4457	9.4	17.5048	2.1725
30,803	A. 4721	9.1	18.8443	20.2513	31,745	W. 4358	8.6	3.3746	10.2661	32,370	W. 4458	9.2	18.4597	10.7782
30,663	W. 4245	9.0	19.2125	9.5791	31,873	A. 4825	9.0	3.7785	20.9585	32,380	W. 4459	9.1	19.1328	12.5908
30,569	W. 4246	9.2	19.3650	1.7678	31,900	A. 4829	9.0	5.4729	22.9670	32,306	W. 4462	9.4	20.4672	0.5119
30,571	W. 4247	8.6	19.5053	1.6783	31,926	A. 4832	7.1	7.4179	25.8150	32,346	W. 4465	9.0	21.1758	5.3096
30,696	W. 4248	8.4	19.7623	12.0734	31,667	W. 4360	8.2	8.2377	2.0517	32,458	A. 4973	7.5	22.0901	25.3669
30,557	W. 4251	9.0	21.8617	0.6220	31,911	A. 4836	8.5	8.3444	24.3357	32,402	A. 4975	8.4	22.8229	17.4761
30,754	A. 4728	8.6	22.6301	16.2423	31,751	W. 4363	4.5	9.8697	10.1976	32,307	W. 4467	8.8	22.9523	0.1469
30,574	W. 4254	9.2	23.2524	1.5157	31,849	A. 4842	9.0	11.1644	18.4019	32,432	A. 4977	8.9	24.0845	21.8838
30,726	A. 4729	9.0	23.4448	14.1849	31,674	W. 4366	9.4	11.4769	3.0752	32,394	A. 4978	9.1	24.2141	15.1504
30,870	A. 4731	9.1	23.5397	25.8801	31,687	W. 4367	9.4	11.4865	4.4207	R.A. 11^h 20^m				
30,743	A. 4732	9.1	24.0621	15.6633	31,753	W. 4368	9.4	11.7512	10.4677	32,682	A. 4977	8.9	1.3528	21.8869
R.A. 10^h 40^m					31,754	W. 4369	Var.	11.9669	10.4586	32,624	A. 4978	9.1	1.4096	15.1524
31,198	A. 4731	9.1	0.8510	25.8894	31,887	A. 4845	7.2	12.2602	22.6881	32,647	A. 4981	8.8	3.4483	18.0235
31,086	A. 4732	9.1	1.2632	15.6669	31,767	W. 4370	9.3	12.4555	10.9647	32,526	W. 4473	9.1	4.8056	4.3444
30,904	W. 4260	9.1	3.4352	1.0852	31,659	W. 4380	9.0	17.4151	0.4919	32,609	W. 4475	9.2	6.2687	13.5941
31,047	W. 4266	8.8	6.5365	13.1852	31,941	A. 4865	6.5	21.4720	26.3561	32,571	W. 4476	9.2	6.4232	9.0033
30,933	W. 4267	8.9	6.6296	3.4586	31,943	A. 4871	9.0	23.0237	26.5401	32,603	W. 4479	9.0	6.6388	12.5862
30,916	W. 4268	8.6	6.6305	1.5546						32,628	A. 4992	5.7	8.4684	15.7702
										32,505	W. 4484	8.2	8.7608	1.8663

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.
R.A. 11^h 20^m (continued)					R.A. 11^h 36^m (continued)					R.A. 11^h 52^m (continued)				
32,580	W. 4485	8.8	8.8937	10.2630	33,138	A. 5110	8.3	15.5634	23.6758	33,524	W. 4669	8.8	17.7549	3.4381
32,654	A. 4997	8.6	10.6371	18.1474	33,075	W. 4580	9.0	17.8109	11.8026	33,644	A. 5214	9.3	20.2906	17.0056
32,707	A. 5001	8.8	12.1207	24.3199	33,043	W. 4582	9.4	18.5318	7.3922	33,545	W. 4673	9.0	21.5726	6.3440
32,517	W. 4487	4.0	12.6698	2.6158	33,045	W. 4587	8.8	20.2356	7.5179	33,725	A. 5217	6.2	23.6021	26.2602
32,620	W. 4488	8.0	13.7207	13.6871	33,004	W. 4588	9.2	20.7271	0.7253	33,597	W. 4680	9.0	24.1917	12.5483
32,663	A. 5012	8.6	16.4055	19.3350	33,081	W. 4590	9.0	21.1591	13.1081	33,726	A. 5225	8.9	25.1985	26.3925
32,565	W. 4493	8.4	16.7392	7.5444	33,005	W. 4593	9.4	21.8810	0.4700	33,504	W. 4682	8.5	25.4140	0.5513
32,599	W. 4494	9.4	17.0946	11.3913	33,067	A. 5125	5.0	23.5498	10.5629	33,698	A. 5226	8.7	25.6259	23.1566
32,664	A. 5016	8.4	17.8256	19.2916	33,107	A. 5126	8.8	24.5325	17.0623	33,688	A. 5228	8.4	25.8886	22.4230
32,697	A. 5017	8.9	18.7577	23.8205						33,636	A. 5230	8.4	26.0420	15.8688
32,672	A. 5018	7.1	18.7797	20.7983	R.A. 11^h 44^m					R.A. 12^h 0^m				
32,583	W. 4496	8.9	19.3158	9.6211	33,279	A. 5125	5.0	0.6959	10.5723	33,894	W. 4680	9.0	1.3592	12.5503
32,614	W. 4497	8.4	19.8281	12.6407	33,355	A. 5126	8.8	1.7486	17.0609	33,751	W. 4682	8.5	2.4520	0.5416
32,567	W. 4498	8.4	20.9462	8.2456	33,259	W. 4598	9.2	3.7061	8.5324	34,056	A. 5226	8.7	2.9076	23.1422
32,679	A. 5025	8.6	21.4038	21.3995	33,374	A. 5134	8.4	6.1290	18.4358	34,040	A. 5228	8.4	3.1617	22.4058
32,645	A. 5029	8.8	21.9522	16.7503	33,237	W. 4600	9.6	6.3249	4.6963	33,933	A. 5230	8.4	3.2451	15.8508
32,622	A. 5030	8.5	22.2500	14.1176	33,435	A. 5135	8.1	6.3429	23.9803	33,781	W. 4685	8.9	6.6582	2.4756
32,601	W. 4504	8.8	22.5971	10.9589	33,203	W. 4601	9.4	6.6897	0.8756	33,998	A. 5236	9.4	6.7435	19.9608
R.A. 11^h 28^m					33,358	A. 5137	9.1	6.7716	17.2871	34,024	A. 5238	9.1	6.9828	20.9280
32,837	W. 4510	9.4	3.2922	9.8462	33,289	W. 4603	7.4	8.1418	10.8882	34,043	A. 5240	8.8	8.4512	21.9026
32,846	W. 4511	8.9	3.5585	11.3638	33,360	A. 5141	8.5	8.3146	17.5357	34,002	A. 5242	9.0	10.0129	19.8692
32,779	W. 4512	8.2	4.2268	3.6260	33,405	A. 5142	7.9	8.4169	20.6948	34,004	A. 5245	9.3	11.0253	20.2879
32,789	W. 4513	8.4	4.3423	5.0234	33,437	A. 5143	8.4	9.2741	23.1491	33,808	W. 4692	8.8	11.9253	4.5212
32,821	W. 4514	9.4	5.1108	8.5890	33,449	A. 5144	8.6	9.2879	24.2887	34,085	A. 5248	8.7	12.4076	25.0986
32,781	W. 4515	9.0	5.4299	3.5595	33,204	W. 4606	9.0	9.7398	0.6460	34,060	A. 5249	8.9	12.5220	22.8365
32,783	W. 4517	9.4	8.2821	3.7456	33,304	W. 4613	9.0	13.0019	12.4373	33,822	W. 4695	8.8	17.7137	6.0587
32,754	W. 4518	9.4	9.2962	1.0359	33,395	A. 5150	8.9	13.1176	19.4392	34,078	A. 5262	8.5	18.3983	24.6804
32,830	W. 4519	9.2	9.7783	9.2530	33,292	W. 4615	9.0	14.2795	10.9427	33,809	W. 4696	9.1	19.0260	5.2945
32,873	A. 5049	8.9	9.9280	15.5959	33,410	A. 5154	8.8	14.3229	20.6254	33,843	W. 4697	7.7	19.6504	8.6242
32,767	W. 4521	9.5	10.5462	2.1948	33,209	W. 4616	8.4	14.5853	1.7078	33,759	W. 4700	8.8	21.1947	0.2870
32,886	A. 5052	8.2	11.9491	16.8220	33,264	W. 4620	8.8	15.4677	8.3170	33,906	W. 4702	8.7	22.1475	13.3067
..	W. 4523	9.4	12.0259	0.0689	33,458	A. 5157	8.1	16.3845	25.6003	33,993	A. 5274	8.5	22.4988	19.2519
32,878	A. 5055	8.8	13.3653	14.9717	33,219	W. 4622	8.3	17.0598	3.2226	33,892	W. 4704	8.0	23.2383	11.5707
32,879	A. 5063	9.0	15.9179	15.7608	33,339	A. 5162	8.6	17.5771	15.1829	33,828	W. 4706	8.9	24.7198	6.6968
32,855	W. 4536	9.5	18.7541	11.9127	33,382	A. 5168	8.9	19.1040	18.1208	R.A. 12^h 8^m				
32,865	W. 4537	9.2	19.2085	13.5580	33,341	A. 5170	8.3	20.2039	15.8403	34,215	W. 4706	8.9	1.8241	6.6940
32,946	A. 5070	8.5	20.0486	24.7783	33,414	A. 5172	7.9	20.2441	20.4349	34,152	W. 4709	8.0	4.2772	0.7737
32,797	W. 4542	8.8	20.7455	5.5026	33,205	W. 4629	8.5	20.3233	1.1678	34,324	A. 5296	8.3	9.2990	15.7804
32,834	W. 4545	9.2	22.6938	9.4729	33,270	W. 4630	8.3	20.4342	8.4107	34,265	W. 4719	8.9	10.2118	11.0711
32,907	A. 5076	9.0	23.4533	18.0256	33,415	A. 5174	7.6	21.8800	20.8210	34,191	W. 4725	9.0	15.6225	3.4265
32,921	A. 5077	8.5	23.7806	21.6781	33,224	W. 4632	9.3	22.6475	2.8805	34,369	A. 5311	8.0	16.1786	20.1744
R.A. 11^h 36^m					33,287	W. 4633	9.0	22.7359	10.3873	34,419	A. 5318	8.8	19.0222	22.9974
33,108	A. 5076	9.0	0.6799	18.0358	33,417	A. 5179	8.3	23.3143	20.6427	34,309	W. 4729	9.3	19.4733	13.8542
33,121	A. 5077	8.5	1.0465	21.6846	33,257	W. 4636	8.8	24.0228	7.1393	34,298	W. 4730	8.5	20.2080	12.8126
33,046	W. 4551	8.1	4.5527	8.6818	33,207	W. 4638	9.0	24.4751	1.2846	34,339	A. 5321	8.6	20.3903	16.8663
33,135	A. 5084	8.5	5.0607	22.9689	33,343	A. 5181	9.0	25.1407	15.5540	34,158	W. 4732	2.0	20.6386	0.8512
33,104	A. 5085	8.4	5.0818	17.4829	R.A. 11^h 52^m					34,404	A. 5330	9.0	24.7827	22.2358
33,006	W. 4564	9.2	8.8302	1.2013	33,662	A. 5179	8.3	0.5691	20.6545	34,261	W. 4736	9.0	25.3755	9.4502
33,145	A. 5091	8.8	9.1073	24.5948	33,715	A. 5180	8.7	1.1696	26.8008	R.A. 12^h 16^m				
33,115	A. 5092	9.2	9.6741	19.6316	33,547	W. 4636	8.8	1.1320	7.1433	34,691	A. 5330	9.0	2.0546	22.2312
33,092	A. 5094	9.1	9.9505	14.7105	33,506	W. 4638	9.0	1.5211	1.2846	34,591	W. 4736	9.0	2.5094	9.4401
33,093	A. 5099	8.8	11.3446	15.3796	33,619	A. 5181	9.0	2.3406	15.5459	34,647	A. 5334	8.7	4.7541	14.8899
33,049	W. 4568	8.9	11.3540	8.4788	33,541	W. 4646	9.1	4.3096	5.7716	34,650	A. 5345	8.9	8.1393	17.4398
33,147	A. 5100	8.4	11.3683	23.8306	33,508	W. 4649	9.2	7.2558	2.0404	34,681	A. 5346	Var.	8.6065	21.4152
33,065	W. 4569	9.2	11.8574	10.5113	33,561	W. 4650	9.2	7.7067	7.6394					
33,011	W. 4572	8.0	13.2853	2.7963	33,564	W. 4658	9.3	11.0978	7.6111					
33,020	W. 4574	9.6	14.2430	4.1712	33,585	W. 4660	8.8	13.0733	10.9146					
33,074	W. 4575	9.4	14.5475	11.5906	33,567	W. 4665	8.9	15.1273	7.5349					
					33,650	A. 5205	8.0	15.1879	18.0935					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.
R.A. 12 ^h 16 ^m (continued)					R.A. 12 ^h 32 ^m (continued)					R.A. 12 ^h 56 ^m				
34,682	A. 5348	7.2	8.8297	20.7358	35,303	W. 4849	9.5	18.0580	13.7216	36,168	A. 5580	9.0	3.4025	20.7992
34,683	A. 5351	7.8	9.4552	21.6302	35,215	W. 4850	8.9	18.8801	6.9952	36,028	W. 4946	9.4	4.0112	8.3375
34,598	W. 4757	8.7	14.9990	11.1482	35,375	A. 5469	8.3	19.3464	21.2831	35,978	W. 4949	8.8	6.4523	3.1327
34,575	W. 4759	9.4	17.3940	7.9269	35,395	A. 5470	9.0	19.6411	24.4242	36,205	A. 5588	9.0	8.5366	24.1926
34,666	A. 5371	8.8	19.0082	19.4277	35,238	W. 4853	8.6	20.6388	8.6260	36,206	A. 5593	8.3	9.8925	24.3121
34,549	W. 4766	9.4	19.9581	4.6192	35,180	W. 4854	8.8	20.9453	2.6303	36,092	W. 4954	9.2	9.9626	13.2092
34,519	W. 4767	9.3	20.3488	2.3473	35,296	W. 4855	8.7	21.1717	12.8191	36,026	W. 4957	8.2	12.6683	8.0059
34,688	A. 5376	7.8	20.6570	21.0707	35,181	W. 4856	9.0	21.4293	3.0072	36,005	W. 4960	8.2	13.2081	5.1179
34,719	A. 5377	7.6	21.0845	25.2113	35,325	A. 5475	8.9	21.5534	16.0278	36,007	W. 4963	9.3	14.4815	5.1325
34,709	A. 5384	8.7	23.4596	24.9599	35,366	A. 5477	9.7	22.0554	20.0240	36,071	W. 4966	8.4	17.4364	11.8067
34,695	A. 5389	8.0	25.1864	22.6887	35,217	W. 4859	8.8	22.7006	6.6328	36,165	A. 5610	8.2	17.9210	19.4728
					35,304	A. 5481	9.3	24.2078	14.3627	36,027	W. 4970	9.0	18.9602	7.6532
R.A. 12 ^h 24 ^m					R.A. 12 ^h 40 ^m					R.A. 13 ^h 4 ^m				
34,860	W. 4771	8.7	0.6306	9.4236	35,525	A. 5481	9.3	1.3948	14.3647	36,267	W. 4980	8.6	0.7572	2.7003
35,065	A. 5384	8.7	0.7611	24.9700	35,537	A. 5492	9.2	4.4816	16.4745	36,386	A. 5620	8.7	2.0648	18.3431
34,768	W. 4772	9.4	1.6941	3.2319	35,588	A. 5493	9.1	5.6654	24.4013	36,326	W. 4985	8.2	2.8480	9.7101
35,043	A. 5389	8.0	2.4632	22.6793	35,539	A. 5494	8.9	5.8603	16.8624	36,368	A. 5622	8.6	2.9119	16.5018
34,842	W. 4774	8.9	2.8319	8.3403	35,456	W. 4867	8.8	5.9254	1.4344	36,335	W. 4987	9.2	3.3559	12.4344
34,819	W. 4775	9.0	2.9318	5.6652	35,503	W. 4870	8.7	7.4259	9.6153	36,348	W. 4989	9.2	4.2669	13.0021
34,821	W. 4778	8.4	3.8203	5.5251	35,573	A. 5497	8.6	7.5344	20.7879	36,387	A. 5625	8.6	4.7833	17.9834
35,044	A. 5391	8.0	5.3976	22.1561	35,540	A. 5499	8.6	8.0853	16.8716	36,431	A. 5629	8.8	7.2652	24.2289
34,893	W. 4782	8.1	7.4203	11.3110	35,505	W. 4874	7.9	9.0882	9.8485	36,303	W. 4994	8.4	8.7245	6.6420
34,921	W. 4784	9.4	8.3622	13.6824	35,542	A. 5502	9.2	9.3600	17.5300	36,397	A. 5632	8.0	8.8324	19.0226
34,865	W. 4785	8.2	8.9259	9.1812	35,559	A. 5504	8.5	9.4123	19.2563	36,293	W. 4996	9.4	10.6025	5.4929
..	W. 4787	8.2	9.0941	0.1086	35,559	A. 5504	8.5	9.4123	19.2563	36,269	W. 5001	8.6	12.3143	2.7153
34,922	W. 4788	8.0	9.4299	13.6794	35,514	W. 4876	8.1	10.8253	12.4284	36,384	A. 5647	9.0	15.3034	17.3950
35,002	A. 5401	8.8	10.3492	18.9272	35,467	W. 4878	8.0	11.4659	3.7581	36,350	W. 5006	9.3	15.8528	12.5529
35,077	A. 5402	9.5	10.4168	25.2960	35,516	W. 4879	9.4	12.1644	11.6478	36,295	W. 5009	9.6	16.7111	5.3852
34,878	W. 4792	9.0	11.0017	9.8655	35,560	A. 5516	9.4	15.9566	19.3023	36,434	A. 5651	9.1	17.6149	24.5754
34,754	W. 4795	9.4	12.0151	1.4224	35,499	W. 4885	8.3	16.2463	9.0734	36,372	A. 5653	8.7	18.1649	16.2494
34,830	W. 4801	8.9	15.8311	5.6661	35,552	A. 5520	8.6	17.1004	18.6729	36,422	A. 5654	9.3	19.1530	22.2942
34,958	A. 5410	9.3	16.2468	15.2505	35,553	A. 5524	6.7	18.9558	18.5040	36,285	W. 5013	9.2	19.6954	4.6427
35,005	A. 5411	9.1	16.3318	18.8918	35,554	A. 5526	8.5	19.5345	17.8885	36,436	A. 5658	9.3	22.5318	23.9943
35,084	A. 5417	7.3	18.5167	25.5058	35,562	A. 5527	9.3	20.1329	19.2606	36,391	A. 5659	9.2	22.8950	18.1925
34,786	W. 4806	8.9	18.7078	2.9636	35,495	W. 4891	9.2	21.0343	7.5180	36,377	A. 5664	7.2	24.6832	16.5815
34,992	A. 5418	9.0	18.6802	18.3439						..	W. 5019	8.4	24.6933	16.5648
34,984	A. 5422	8.7	22.1816	17.8108	R.A. 12 ^h 48 ^m					R.A. 13 ^h 12 ^m				
34,964	A. 5423	8.5	22.4533	15.3206	35,786	W. 4904	9.2	5.0298	13.5221	36,634	A. 5664	7.2	1.8942	16.5784
34,884	W. 4814	8.8	22.6825	10.5973	35,836	A. 5547	9.2	5.1270	17.1290	..	W. 5019	8.4	1.9041	16.5617
34,913	W. 4816	8.9	23.5048	12.2308	35,797	A. 5549	9.1	6.5020	14.3323	36,522	W. 5023	9.2	5.2345	3.6749
R.A. 12 ^h 32 ^m					35,697	W. 4907	8.9	6.6135	4.7885	36,671	A. 5670	8.9	6.1960	19.0777
35,268	W. 4816	8.9	0.6689	12.2410	35,665	W. 4910	9.4	7.7674	1.8879	36,693	A. 5672	8.8	6.9321	21.0934
35,186	W. 4818	8.5	2.7123	3.9158	35,849	A. 5551	8.5	9.0943	17.7974	36,648	A. 5673	8.8	6.9883	17.6981
35,171	W. 4819	8.8	3.1569	3.0591	35,687	W. 4915	9.0	9.7815	4.1239	36,504	W. 5027	9.1	7.3062	0.3043
35,229	W. 4823	8.1	4.2283	8.7223	35,741	W. 4916	9.2	10.4986	8.8600	36,542	W. 5032	9.2	12.3367	5.4981
35,359	A. 5440	9.8	5.0315	19.7717	35,667	W. 4917	9.2	10.5439	1.9081	36,584	W. 5037	9.2	15.2700	10.5478
35,230	W. 4826	9.4	6.3935	8.3422	35,653	W. 4919	9.4	11.7036	1.1938	36,586	W. 5039	5.0	16.3681	10.0475
35,403	A. 5447	9.2	9.3273	25.1444	35,776	W. 4921	8.5	12.8069	12.4733	36,615	W. 5043	9.4	19.2831	13.0743
35,333	A. 5450	9.6	10.2719	17.0606	35,721	W. 4926	9.0	15.0058	6.9057	36,616	W. 5044	9.2	19.6082	12.9992
35,287	W. 4835	9.6	10.7585	12.7078	35,722	W. 4927	8.6	15.0826	6.9388	36,640	A. 5695	9.1	20.2933	16.3435
35,343	A. 5453	8.7	11.5662	18.4136	35,770	W. 4928	8.9	17.2701	10.7363	36,577	W. 5050	9.0	21.6000	8.7770
35,406	A. 5457	8.6	14.2547	25.3368	35,906	A. 5564	9.1	17.5619	23.2888	36,608	W. 5052	8.4	22.2648	11.8033
35,315	A. 5461	8.7	15.8772	14.5857	35,921	A. 5565	9.0	18.1527	24.1768	36,721	A. 5702	7.0	24.6956	24.6180
35,177	W. 4844	9.4	16.6249	2.7414	35,789	W. 4929	9.4	18.5199	13.0535					
35,292	W. 4845	8.7	17.0243	12.8374	35,874	A. 5568	9.1	19.2206	20.0904					
35,248	W. 4846	7.0	17.3480	9.4117	35,658	W. 4930	9.3	19.2287	0.6451					
35,165	W. 4847	9.3	17.7465	2.0421	35,817	A. 5572	9.2	21.3288	15.5484					
35,234	W. 4848	9.0	17.9361	8.2956	35,749	W. 4935	9.0	21.3533	9.4439					
					35,682	W. 4933	9.2	21.3725	2.6					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 13^h 20^m					R.A. 13^h 44^m					R.A. 14^h 0^m (continued)				
37,035	A. 5702	7.0	1.9932	24.6141	37,754	W. 5175	9.4	0.6695	8.0871	39,113	W. 5282	8.9	18.8757	7.1832
36,937	A. 5703	7.6	2.7553	15.6398	37,925	A. 5813	8.3	1.4592	22.9940	39,207	W. 5283	9.4	19.4393	18.1682
36,847	W. 5058	9.2	3.5723	5.8841	37,695	W. 5180	9.1	2.2267	3.9544	39,199	A. 5941	9.1	20.8999	17.7014
36,858	W. 5061	9.3	5.4974	7.5212	37,741	W. 5181	8.8	3.9917	7.1079	39,086	W. 5287	8.8	22.6140	4.1578
36,857	W. 5062	8.8	5.5006	7.0928	37,755	W. 5183	9.5	5.8081	7.7522	39,245	A. 5944	6.8	22.8878	22.2547
37,037	A. 5709	9.4	5.5111	24.3721	37,711	W. 5184	9.0	6.1317	4.8990	39,165	W. 5288	8.3	23.0423	13.3476
36,885	W. 5063	9.1	5.8843	10.2785	37,913	A. 5821	6.8	6.6550	22.0725	R.A. 14^h 8^m				
36,879	W. 5064	8.9	6.0063	9.1452	37,929	A. 5824	9.0	7.0077	23.0766	39,355	W. 5290	9.0	4.5998	7.2366
36,832	W. 5065	6.8	6.2964	3.5498	37,712	W. 5187	6.5	7.2170	5.3191	39,440	A. 5951	8.7	4.9176	16.1266
36,844	W. 5067	9.1	6.4746	4.9452	37,797	W. 5186	8.6	7.2183	10.7225	39,312	W. 5294	8.9	5.5570	3.0254
37,006	A. 5711	9.0	6.5964	21.1518	37,673	W. 5189	9.2	8.1721	1.9857	39,478	A. 5952	8.6	5.7799	21.0839
36,887	W. 5074	8.7	8.6136	9.7697	37,834	A. 5831	7.3	8.6640	13.8877	39,510	A. 5955	8.8	6.8709	25.3044
36,903	W. 5077	9.2	10.0547	11.4251	37,895	A. 5834	9.4	11.1967	20.6211	39,462	A. 5957	7.9	7.9849	19.5660
36,929	W. 5082	9.0	13.7087	13.7854	37,656	W. 5193	9.2	11.5646	0.6231	39,347	W. 5298	9.0	8.3853	5.9335
36,997	A. 5722	9.0	14.2545	20.0479	37,775	W. 5197	5.0	14.2475	8.6329	39,365	W. 5301	9.2	9.4447	7.7833
36,943	A. 5731	8.7	17.9018	15.0577	37,715	W. 5198	9.2	14.4415	5.0897	39,442	A. 5959	9.0	9.7273	16.3149
36,854	W. 5088	7.7	18.1774	5.9094	37,933	A. 5842	8.9	14.9213	23.2680	39,370	W. 5309	9.4	14.9459	7.7861
36,861	W. 5091	8.9	19.3488	7.1752	37,950	A. 5846	8.2	15.8668	23.9647	39,304	W. 5310	8.3	15.0182	0.9500
36,890	W. 5093	9.3	20.4771	10.4232	37,802	W. 5201	9.0	19.0108	11.3595	39,398	W. 5312	9.0	15.8214	11.4999
37,012	A. 5735	9.2	21.5925	21.6966	37,850	A. 5856	7.0	22.0839	15.6037	39,406	W. 5313	8.9	16.5815	12.5607
36,881	W. 5095	9.3	22.7860	9.3276	37,851	A. 5857	9.0	22.5741	15.1819	39,434	A. 5967	8.6	16.9530	14.8310
36,948	A. 5738	6.5	24.6409	15.5647	R.A. 13^h 52^m					39,392	W. 5315	6.3	18.3983	9.8159
R.A. 13^h 28^m					38,178	A. 5862	8.8	2.9567	21.1261	39,407	W. 5319	9.0	20.2533	12.5053
37,245	A. 5738	6.5	1.8409	15.5621	38,060	W. 5216	8.4	4.5704	6.6673	39,428	A. 5974	6.5	23.0730	14.4828
37,292	A. 5743	8.9	3.9266	19.2533	38,024	W. 5217	8.8	5.4121	3.9166	39,420	W. 5324	9.2	23.9277	13.3627
37,343	A. 5747	9.0	5.4179	23.4634	38,242	A. 5869	9.1	5.7579	25.9858	39,344	W. 5325	9.1	24.0977	4.4934
37,373	A. 5748	7.5	5.9459	25.5316	38,193	A. 5871	7.2	6.0293	21.7231	39,517	A. 5979	9.3	24.1385	25.2927
37,223	W. 5100	8.6	6.2036	13.0164	38,208	A. 5872	9.0	6.2220	23.0248	R.A. 14^h 16^m				
37,309	A. 5750	9.1	6.8072	19.8516	38,096	W. 5222	8.2	8.2077	10.1128	39,675	W. 5324	9.2	1.1040	13.3678
37,246	A. 5754	6.0	9.1614	15.5642	38,197	A. 5881	8.1	10.1238	21.9136	39,597	W. 5325	9.1	1.1783	4.4973
37,111	W. 5106	9.2	9.1639	1.6552	38,110	W. 5227	9.4	12.5503	12.4911	39,813	A. 5979	9.3	1.4435	25.2951
37,329	A. 5756	8.7	10.1558	22.0965	38,146	A. 5892	9.1	14.7335	15.6164	39,585	W. 5329	8.8	3.7423	4.2712
37,131	W. 5109	9.0	11.2273	3.9159	38,129	A. 5893	9.1	15.1858	14.5548	39,753	A. 5984	9.0	4.0213	20.4397
37,330	A. 5758	8.7	11.9265	21.8705	38,017	W. 5234	8.8	16.0000	2.6605	39,587	W. 5330	9.1	4.3632	3.7000
37,225	W. 5112	9.2	13.2872	12.9676	38,018	W. 5236	8.8	17.2619	2.7223	39,706	A. 5986	6.5	4.7554	16.0553
37,312	A. 5763	8.5	15.7232	20.1384	38,088	W. 5237	9.0	17.4210	8.4456	39,687	A. 5989	8.0	7.0108	13.7628
37,377	A. 5771	9.0	21.6953	25.9428	38,141	A. 5898	7.1	17.4846	14.6477	39,564	W. 5340	8.6	9.9965	1.8284
R.A. 13^h 36^m					38,039	W. 5239	9.1	18.9689	5.2419	39,795	A. 5992	8.2	10.9748	23.4985
37,582	A. 5784	8.4	3.7097	21.1725	38,142	A. 5904	9.0	21.7953	15.3078	39,553	W. 5341	8.8	11.2327	1.2519
37,442	W. 5138	9.2	4.4532	4.5709	38,090	W. 5244	9.4	22.8659	8.5439	39,603	W. 5342	8.9	11.5423	5.0077
37,584	A. 5787	9.0	4.5852	21.1300	R.A. 14^h 0^m					39,743	A. 5994	8.3	11.6275	19.4049
37,503	W. 5146	9.2	8.9934	11.5954	39,097	W. 5246	8.6	2.6448	5.9394	39,721	A. 5995	9.0	12.3565	17.2752
37,404	W. 5147	8.9	9.5888	0.7183	39,075	W. 5247	9.3	4.4571	4.0114	39,796	A. 5998	8.9	12.7521	23.6208
37,444	W. 5150	8.2	11.3810	4.4314	39,068	W. 5251	8.8	6.3490	2.4972	39,623	W. 5346	9.2	12.9361	6.9401
37,576	A. 5798	8.0	13.8481	20.5705	39,187	A. 5915	9.2	6.5358	15.5903	39,724	A. 6002	9.0	14.1348	17.0813
37,513	W. 5153	8.0	13.8719	13.5715	39,056	W. 5253	9.2	6.5432	2.0747	39,631	W. 5350	9.2	16.7209	8.2224
37,414	W. 5154	8.6	14.1159	1.5662	39,077	W. 5254	9.0	6.7017	3.9560	39,555	W. 5351	9.1	17.3028	1.3937
37,561	A. 5799	7.7	14.2738	18.7505	39,098	W. 5255	9.0	8.8908	5.5869	39,632	W. 5352	9.0	17.5045	8.1678
37,612	A. 5802	8.0	15.7313	23.7087	39,092	W. 5263	9.0	12.3494	5.1247	39,644	W. 5357	9.1	21.6514	8.7690
37,462	W. 5161	8.6	18.4439	7.1030	39,102	W. 5267	9.2	12.5277	6.1059	39,802	A. 6019	9.1	22.2487	23.4871
37,472	W. 5164	9.1	19.5021	8.0399	39,122	W. 5268	8.8	13.4271	8.1075	39,823	A. 6026	9.0	24.9733	25.8579
37,457	W. 5170	8.2	21.8603	6.2301	39,123	W. 5269	9.0	13.4451	8.2126	R.A. 14^h 24^m				
37,438	W. 5174	8.6	22.4896	3.5535	39,147	W. 5270	9.1	13.6450	11.0231	40,028	A. 6026	9.0	2.2843	25.8508
37,579	A. 5811	9.1	23.0037	20.3898	39,062	W. 5272	8.7	15.0492	1.5231	39,969	A. 6031	8.8	4.5733	17.4502
37,474	W. 5175	9.4	23.5503	8.0780	39,081	W. 5273	9.0	15.2603	3.5316	39,867	W. 5363	8.2	5.6769	3.4319
37,614	A. 5813	8.3	24.1791	22.9920	39,055	W. 5277	7.8	16.0873	0.7437	39,929	W. 5364	9.1	5.8566	12.2219
37,440	W. 5180	9.1	25.1519	3.9614	39,094	W. 5279	9.1	16.7942	5.3240					
					39,242	A. 5933	7.8	17.6503	22.6889					
					39,189	A. 5935	8.8	18.5279	16.5466					

Reference No.					Reference No.					Reference No.				
Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.		
Hyd.	Wash. or Alg.	ξ'.	η'.		Hyd.	Wash. or Alg.	ξ'.	η'.		Hyd.	Wash. or Alg.	ξ'.	η'.	
R.A. 14^h 24^m (continued)					R.A. 14^h 40^m (continued)					R.A. 15^h 4^m				
39,931	W. 5366	9.2	6.9191	12.4401	40,423	W. 5455	9.2	16.1882	2.3554	41,462	A. 6245	8.9	0.6877	15.8760
40,010	A. 6038	9.3	8.0908	22.0965	40,634	A. 6147	8.9	16.5024	24.0797	41,562	A. 6251	7.8	3.2532	24.8902
40,019	A. 6039	9.0	8.5288	23.1906	40,544	A. 6150	9.0	18.0075	13.7799	41,528	A. 6252	9.0	3.3084	22.0820
39,994	A. 6042	9.3	9.5386	21.0807	40,484	W. 5458	9.2	21.2935	8.6694	41,529	A. 6255	9.0	3.6149	21.5561
39,869	W. 5373	9.1	10.7139	2.5889	..	W. 5460	8.0	21.4577	0.0696	..	W. 5563	Var.	3.8227	17.1578
39,862	W. 5375	9.2	10.9398	1.9406	40,591	A. 6156	8.6	24.5726	19.3465	41,406	W. 5567	9.0	5.0535	9.5705
39,996	A. 6047	9.2	11.8916	21.2890						41,307	W. 5571	9.4	6.8635	0.7656
39,960	A. 6049	9.0	12.8143	16.0197	R.A. 14^h 48^m					41,308	W. 5575	9.4	7.6716	1.0171
39,918	W. 5379	9.0	12.8458	10.6926						41,541	A. 6265	8.9	10.0251	23.1029
39,999	A. 6051	8.9	13.6123	21.7949						41,551	A. 6274	8.0	11.5407	24.0582
39,907	W. 5381	9.5	13.6569	7.7203	40,901	A. 6156	8.6	1.8134	19.3445	41,395	W. 5578	8.7	12.0975	8.5651
39,963	A. 6063	9.0	19.1957	16.1422	40,811	W. 5472	9.1	3.4291	11.7907	41,439	A. 6277	8.0	12.5906	13.2030
39,895	W. 5393	8.7	21.0490	6.2812	40,882	A. 6164	8.7	4.0392	18.3013	41,324	W. 5580	9.0	12.9675	1.1258
39,973	A. 6067	8.4	21.4389	17.5813	40,934	A. 6165	8.7	4.0840	22.6030	41,508	A. 6281	9.1	13.6599	19.6090
40,024	A. 6070	8.9	24.3538	23.2554	40,855	A. 6167	8.4	4.2914	15.6142	41,567	A. 6283	9.4	14.5375	25.1799
40,016	A. 6072	8.9	24.9861	22.1126	40,959	A. 6171	8.3	5.2524	25.8110	41,396	W. 5582	8.7	14.5607	9.1098
R.A. 14^h 32^m					40,902	A. 6172	8.1	6.0029	19.0597	41,458	A. 6286	9.0	16.7322	15.3226
40,307	A. 6070	8.9	1.6368	23.2554	40,794	W. 5481	9.1	6.6489	10.5551	41,368	W. 5589	9.4	18.7568	6.0115
40,299	A. 6072	8.9	2.2567	22.1057	40,758	W. 5482	8.8	6.7801	6.5705	41,369	W. 5590	9.4	19.1727	5.5658
40,337	A. 6074	8.4	3.2399	25.9793	40,738	W. 5483	8.9	6.8623	4.6321	41,426	W. 5594	9.2	19.9073	10.8133
40,115	W. 5402	9.2	3.3995	2.5037	40,865	A. 6173	9.2	6.8981	16.2153	41,532	A. 6293	7.0	20.1624	21.7538
40,300	A. 6075	8.4	3.4518	22.4664	40,840	A. 6174	8.9	7.0977	14.2329	41,413	W. 5597	8.0	20.9455	9.5711
40,273	A. 6079	9.1	6.6849	17.6535	40,739	W. 5487	7.0	7.2413	5.4965	41,490	A. 6296	9.0	21.7230	18.3172
40,134	W. 5407	9.3	7.7241	4.2788	40,812	W. 5491	7.3	7.9867	12.3246	41,556	A. 6298	8.9	22.1953	24.0178
40,178	W. 5408	Var.	7.9798	8.1898	40,711	W. 5494	8.8	8.5391	2.1638	41,428	W. 5602	9.3	24.7165	11.2500
40,283	A. 6081	9.0	8.2662	19.4286	40,750	W. 5495	8.8	8.7771	5.9868	41,455	A. 6301	9.2	24.7349	14.3811
40,275	A. 6085	9.3	10.6055	17.8081	40,961	A. 6179	8.9	9.2506	25.3629					
40,220	W. 5410	9.3	11.7715	11.7530	40,870	A. 6181	8.3	11.5602	15.9995	R.A. 15^h 12^m				
40,231	W. 5411	9.4	11.9708	12.6973	40,929	A. 6185	8.2	12.9015	21.8625	41,709	W. 5602	9.3	1.8700	11.2471
40,154	W. 5413	9.4	13.6165	5.5454	40,876	A. 6188	9.3	13.4632	17.2088	41,742	A. 6301	9.2	1.9221	14.3776
40,156	W. 5416	9.0	15.6437	6.3035	40,906	A. 6190	9.2	14.9944	19.5561	41,605	W. 5604	9.2	2.7697	0.6434
40,333	A. 6098	8.7	17.6956	25.2917	40,800	W. 5505	8.8	17.5496	10.0504	41,627	W. 5605	9.0	3.0627	2.7326
40,146	W. 5418	9.2	17.8024	4.6027	40,818	W. 5510	8.8	19.3194	12.5363	41,795	A. 6305	7.1	3.4761	19.9817
40,170	W. 5420	8.8	18.2127	6.4688	40,908	A. 6196	8.0	20.6103	19.2930	41,744	A. 6308	6.9	3.9155	13.6735
40,105	W. 5422	8.8	19.9868	1.2413	40,766	W. 5520	9.3	24.3355	7.3641	41,826	A. 6307	8.2	3.9173	23.4736
40,319	A. 6106	9.0	20.4146	24.2453	40,780	W. 5522	9.1	24.8894	8.3617	41,745	A. 6309	8.8	4.0129	13.7962
..	W. 5425	Var.	21.0352	3.7400	R.A. 14^h 56^m					41,657	W. 5609	7.8	4.1754	5.7573
40,148	W. 5426	9.2	21.5239	5.2761	41,061	W. 5520	9.3	1.4470	7.3651	41,858	A. 6311	9.4	4.5480	25.4260
40,185	W. 5428	9.4	22.2505	7.5635	41,077	W. 5522	9.1	2.0116	8.3567	41,816	A. 6318	8.9	8.5749	21.9446
40,267	A. 6110	8.9	22.5714	17.4531	41,003	W. 5524	7.4	2.9392	0.5711	41,766	A. 6320	8.2	9.1633	16.1093
40,261	A. 6116	8.4	25.0093	15.9356	41,040	W. 5527	8.6	4.6648	4.3545	41,807	A. 6325	9.1	11.5376	21.7497
R.A. 14^h 40^m					41,225	A. 6208	9.3	5.3175	24.1989	41,798	A. 6326	9.0	12.0425	20.7696
40,562	A. 6116	8.4	2.2133	15.9290	41,236	A. 6211	8.5	6.4585	25.1127	41,789	A. 6330	9.2	14.0142	19.2055
40,453	W. 5435	9.0	3.5345	5.7653	41,226	A. 6215	8.0	7.4979	23.8792	41,864	A. 6337	8.9	16.0707	25.2242
40,506	W. 5437	8.7	4.0629	11.6624	41,141	A. 6218	8.0	9.3835	15.7569	41,819	A. 6341	7.9	17.9599	22.6579
40,498	W. 5440	9.2	4.1770	10.4953	41,128	A. 6220	9.1	10.2341	13.5918	41,728	W. 5625	8.6	18.0695	12.0976
40,507	W. 5441	9.0	4.7425	12.0254	41,160	A. 6225	7.8	12.6214	17.8881	41,738	W. 5626	9.6	18.1662	12.6188
40,623	A. 6119	7.4	4.8834	23.6452	41,083	W. 5540	9.2	13.8367	8.8722	41,719	W. 5629	9.2	20.1474	11.1895
40,595	A. 6123	9.1	6.7726	20.4951	41,084	W. 5541	9.3	13.9766	9.0985	41,721	W. 5632	7.3	22.2060	10.5669
40,586	A. 6125	8.5	7.1395	19.3439	41,229	A. 6234	9.2	16.0787	24.2722	41,792	A. 6347	8.6	22.4312	19.3131
40,473	W. 5446	8.8	12.2507	7.9376	41,129	A. 6235	9.1	16.1566	13.6053	41,768	A. 6348	8.4	22.5830	16.5748
40,606	A. 6134	9.0	12.8972	20.8021	41,067	W. 5544	9.2	16.1795	7.8502	41,723	W. 5637	8.8	23.3262	11.3073
40,514	W. 5449	8.4	13.6499	12.0261	41,034	W. 5548	8.1	17.2601	3.8663	41,652	W. 5639	9.0	25.3319	4.8821
40,434	W. 5450	8.0	13.8480	4.3044	41,057	W. 5555	8.3	21.2602	7.1679	R.A. 15^h 20^m				
40,588	A. 6136	8.1	13.8666	19.4984	41,058	W. 5556	8.9	21.3489	7.1700	41,944	W. 5639	9.0	2.4164	4.8731
40,589	A. 6138	8.2	14.2320	19.6933	41,136	A. 6242	9.1	22.3090	15.3870	42,012	W. 5641	9.0	3.1810	11.7532
40,573	A. 6140	9.3	14.6764	17.6148	41,148	A. 6245	8.9	23.4844	15.8661	42,086	A. 6360	8.6	5.3420	18.8427
					41,060	W. 5559	8.9	23.4846	6.8957					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 15^h 20^m (continued)					R.A. 15^h 44^m					R.A. 16^h 0^m (continued)				
42,117	A. 6367	9.2	8.6357	22.0155	43,037	W. 5762	9.3	2.5535	11.3249	43,509	W. 5877	9.2	23.5957	0.9612
41,938	W. 5652	9.3	8.7597	3.2533	43,159	A. 6517	8.9	2.8015	25.6665	..	W. 5878	8.8	23.8547	0.0783
41,907	W. 5653	9.3	9.1565	0.4853	43,038	W. 5763	9.2	3.3921	10.9772	43,649	A. 6678	6.7	24.8705	13.9341
42,118	A. 6371	9.1	10.0252	21.8292	43,124	A. 6519	8.8	5.1262	22.8827	R.A. 16^h 8^m				
42,021	A. 6374	9.2	10.5742	13.2864	43,070	A. 6521	8.7	5.7465	14.9445	43,801	W. 5877	9.2	0.6382	0.9701
42,049	A. 6378	8.9	13.5003	14.9644	43,034	W. 5768	8.3	6.1841	10.3713	43,802	W. 5878	8.8	0.8877	0.0852
42,065	A. 6380	9.3	14.1829	15.8390	43,007	W. 5772	9.4	8.3133	6.6051	43,935	A. 6678	6.7	2.0529	13.9292
41,981	W. 5664	8.9	14.9736	8.7954	43,062	A. 6530	8.4	9.0835	14.5596	43,904	W. 5883	8.4	5.8753	11.2772
41,982	W. 5668	9.2	16.1600	8.7778	43,133	A. 6533	8.3	9.8256	23.9064	43,897	W. 5884	9.1	6.6965	9.8812
42,067	A. 6387	9.2	18.2661	15.8607	43,086	A. 6539	7.9	11.1843	17.7636	43,929	A. 6696	7.5	8.0600	12.6791
42,074	A. 6395	8.2	21.5692	17.5225	43,017	W. 5780	7.4	13.4280	8.1572	43,978	A. 6697	7.7	8.1778	22.6411
42,149	A. 6399	9.0	23.4260	25.7364	43,043	W. 5783	8.0	13.9277	11.0418	43,906	W. 5892	8.3	12.0976	11.1372
41,933	W. 5681	7.2	24.2475	2.1778	42,985	W. 5784	9.0	14.8410	4.0023	43,866	W. 5895	9.0	13.4516	6.7919
42,043	A. 6402	9.0	25.1620	14.1644	42,986	W. 5785	9.2	15.1478	4.2631	43,919	W. 5896	9.0	13.9380	12.3135
R.A. 15^h 28^m					42,964	W. 5786	8.3	15.2270	1.5340	43,971	A. 6711	8.4	14.1915	19.9463
42,534	A. 6399	9.0	0.7357	25.7469	43,056	A. 6548	9.2	15.5119	12.8342	43,829	W. 5898	9.1	14.3292	2.9640
42,215	W. 5681	7.2	1.3031	2.1798	43,095	A. 6549	9.1	15.5671	17.9477	43,952	A. 6714	7.0	15.5120	16.3498
42,399	A. 6402	9.0	2.3469	14.1562	43,035	W. 5789	8.9	16.4831	9.9211	43,998	A. 6715	9.3	15.5189	24.1303
42,466	A. 6408	7.8	5.4125	18.9345	43,110	A. 6556	7.0	18.3366	20.6456	43,957	A. 6725	8.4	20.2600	17.1878
42,401	A. 6412	8.7	8.0623	14.7505	43,067	A. 6558	7.1	20.2308	14.6494	43,958	A. 6726	9.0	21.1674	17.3684
42,538	A. 6417	8.6	9.6885	25.7619	..	W. 5797	9.0	20.7151	0.2111	R.A. 16^h 16^m				
42,305	W. 5697	8.8	10.4214	8.0761	43,141	A. 6560	9.2	22.5803	23.1272	44,066	W. 5915	8.0	3.5510	2.7148
42,279	W. 5698	9.2	10.6117	6.0733	43,031	W. 5798	8.6	23.1846	9.0577	44,237	A. 6741	6.9	6.6996	20.0369
42,222	W. 5704	8.4	13.8750	2.4850	43,112	A. 6567	7.0	24.8689	20.8832	44,238	A. 6743	8.8	7.4391	20.5835
42,270	W. 5708	8.5	15.1920	5.3454	R.A. 15^h 52^m					44,083	W. 5924	9.2	8.1065	4.0259
42,507	A. 6431	8.8	15.1989	21.6206	43,402	A. 6567	7.0	2.1263	20.8778	44,201	A. 6746	8.3	8.5139	15.0594
42,474	A. 6438	8.9	17.4229	19.8183	43,205	W. 5805	9.3	6.5821	0.5394	44,216	A. 6750	7.9	9.2799	18.3985
42,435	A. 6439	8.6	17.5683	17.6758	43,380	A. 6578	8.5	6.9165	18.9768	44,128	W. 5927	9.2	11.0081	6.4797
42,224	W. 5710	9.0	18.1542	1.8903	43,300	W. 5808	8.6	7.5632	9.8549	44,214	A. 6755	9.1	13.2378	16.9647
42,249	W. 5711	9.1	18.3170	3.8762	43,289	W. 5810	8.9	8.0038	8.0712	..	W. 5928	9.0	16.2324	0.0103
42,517	A. 6441	9.1	19.3382	22.2698	43,323	W. 5811	9.2	8.1310	12.6062	44,230	A. 6760	9.1	16.7864	19.2433
42,273	W. 5714	9.4	21.0601	5.3764	43,333	A. 6581	9.0	8.5071	13.6371	44,134	W. 5932	9.1	20.6321	7.1708
42,527	A. 6447	9.1	21.4393	23.1676	43,343	A. 6593	9.3	14.7766	15.2571	44,108	W. 5936	8.8	21.4016	4.9537
42,389	A. 6453	8.1	23.0170	13.0774	43,233	W. 5830	9.2	14.7999	2.3325	R.A. 16^h 24^m				
42,328	W. 5717	9.1	23.0230	9.4835	43,278	W. 5831	8.8	15.0358	6.5073	44,400	A. 6770	8.7	4.0936	23.8710
42,528	A. 6457	8.6	24.3011	23.9831	43,235	W. 5833	9.2	15.8915	3.0254	44,380	A. 6771	5.0	5.0967	15.7680
R.A. 15^h 36^m					43,210	W. 5835	8.8	17.5604	1.0274	44,330	W. 5940	8.3	5.1474	7.5123
42,898	A. 6457	8.6	1.5919	23.9837	43,248	W. 5839	9.2	21.5712	3.6176	44,324	W. 5941	9.2	7.6129	4.6800
42,647	W. 5726	9.3	3.2349	3.8005	43,407	A. 6609	9.1	22.1333	21.1816	44,334	W. 5943	8.8	7.9781	8.4688
42,776	A. 6465	8.4	3.8514	14.4682	43,456	A. 6612	9.0	22.2754	25.1674	44,350	W. 5945	8.1	10.0696	10.1531
42,655	W. 5731	7.8	4.4212	5.0534	R.A. 16^h 0^m					44,318	W. 5946	9.0	10.0908	4.0496
42,909	A. 6468	5.8	4.9154	24.6895	43,575	W. 5844	9.1	3.9736	8.0199	..	W. 5948	9.3	10.6512	0.3633
42,751	W. 5734	9.2	6.7095	12.8326	43,617	W. 5845	8.9	4.1280	11.7314	44,370	A. 6776	8.8	12.6211	13.2287
42,752	A. 6475	9.1	6.7302	13.2156	43,576	W. 5847	9.3	4.3089	8.3966	44,389	A. 6777	8.1	12.7173	18.4438
42,738	W. 5737	9.2	9.2050	11.7940	43,522	W. 5848	9.2	4.8175	2.8247	44,353	W. 5955	9.0	14.4121	10.4135
42,712	W. 5738	9.0	9.7099	9.7335	43,626	A. 6624	8.3	5.9916	12.9164	44,376	A. 6779	8.9	14.7934	14.4188
42,608	W. 5741	9.2	10.7152	0.7022	43,715	A. 6630	8.9	7.9598	22.9239	44,331	W. 5961	8.6	18.3584	6.9724
42,835	A. 6487	9.1	11.3038	18.9326	43,717	A. 6632	8.2	10.1852	23.5971	44,354	W. 5962	9.3	20.4607	10.4762
42,818	A. 6489	9.0	13.1096	18.2374	43,662	A. 6637	6.8	10.9668	16.1789	R.A. 16^h 32^m				
42,627	W. 5745	9.0	14.3960	1.6587	43,667	A. 6641	9.1	11.9704	17.6757	44,452	W. 5970	Var.	2.9548	0.4311
42,795	A. 6499	7.7	15.5741	16.4410	43,668	A. 6651	8.9	14.8467	17.6279	44,541	A. 6793	8.9	4.6547	14.1426
42,670	W. 5749	9.2	16.9413	5.5448	43,588	W. 5863	9.0	17.2908	8.9995	44,569	A. 6796	8.4	6.4245	18.5999
42,686	W. 5752	9.4	18.9864	6.8322	43,581	W. 5864	8.9	17.4195	8.2693					
42,826	A. 6511	9.2	21.9673	18.2312	43,645	A. 6661	7.7	17.5446	14.1763					
42,674	W. 5757	9.3	22.0493	5.6478	43,634	A. 6666	7.0	19.7176	12.6760					
42,882	A. 6513	7.7	23.3495	22.5365	43,694	A. 6671	7.6	22.2421	21.7748					
					43,518	W. 5876	9.0	23.5119	2.0428					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 16^h 32^m (continued)					R.A. 16^h 56^m (continued)					R.A. 17^h 12^m				
44,561	A. 6798	8.8	8.0928	17.2408	45,135	W. 6066	9.2	3.1357	4.7762	46,231	A. 7038	8.4	0.9628	18.0409
44,590	A. 6800	8.9	9.3091	25.8487	45,228	A. 6921	8.7	3.6518	15.5589	46,317	A. 7040	8.1	1.1217	23.3348
44,456	W. 5981	8.8	10.8484	0.4643	45,196	W. 6069	9.2	3.9606	11.7765	46,163	A. 7042	8.2	1.8105	14.2321
44,476	W. 5983	9.2	11.8682	4.0688	45,290	A. 6928	8.6	6.0696	20.4370	45,965	W. 6168	9.0	2.9464	1.9026
44,545	A. 6806	8.6	12.3406	15.0228	45,217	A. 6931	6.2	7.0579	14.1207	46,012	W. 6169	8.7	3.1373	5.2039
44,534	A. 6809	7.9	14.9295	13.2349	45,276	A. 6934	9.0	8.3117	19.4448	46,235	A. 7045	8.9	3.3254	18.3571
44,574	A. 6810	7.2	15.1413	20.5051	45,213	A. 6936	8.3	8.4779	13.7685	45,984	W. 6176	8.6	6.7678	2.3743
44,509	W. 5990	9.1	15.8447	9.3701	45,357	A. 6937	8.3	8.5998	25.2278	46,169	A. 7054	8.5	6.9653	13.8119
44,564	A. 6812	8.9	16.4341	16.9052	45,115	W. 6083	8.7	11.2803	3.3606	46,339	A. 7057	9.1	8.2786	24.1045
44,472	W. 5995	9.2	21.4709	2.4250	45,317	A. 6943	8.4	11.7426	22.4617	46,238	A. 7061	9.0	9.2666	17.8228
44,520	W. 6000	7.6	23.0154	11.3958	45,306	A. 6946	6.0	13.0090	21.8658	46,143	A. 7062	8.6	9.8087	13.3011
44,506	W. 6001	5.0	23.8353	7.6121	45,359	A. 6949	9.0	13.5582	25.7569	46,104	W. 6185	8.2	9.8889	10.6313
44,578	A. 6821	9.0	24.7470	22.0043	45,321	A. 6959	8.6	18.0466	22.4292	45,969	W. 6186	9.2	9.8808	1.5011
R.A. 16^h 40^m					45,120	W. 6095	8.7	20.0664	2.7570	46,106	W. 6189	9.0	10.6587	11.4223
44,641	W. 6001	5.0	0.9496	7.6181	45,282	A. 6965	9.1	20.1232	19.1968	46,051	W. 6190	8.9	10.7583	7.5547
44,743	A. 6821	9.0	2.0165	22.0000	45,216	A. 6966	8.3	20.4852	12.9969	46,357	A. 7065	8.8	11.7007	25.0726
44,698	A. 6828	8.6	5.7519	16.2359	45,121	W. 6097	9.2	20.5785	3.3422	46,080	W. 6192	9.4	12.2200	10.1324
44,627	W. 6007	9.3	7.1080	4.9209	45,145	W. 6098	8.2	20.6961	5.1945	46,082	W. 6193	9.2	12.5723	9.6390
44,671	A. 6832	8.8	7.6179	12.8502	45,254	A. 6969	8.5	21.1467	17.0680	46,087	W. 6206	9.2	17.1009	9.5925
44,710	A. 6833	7.2	8.0373	17.2457	45,185	W. 6104	8.6	21.5221	10.8275	46,322	A. 7079	7.5	17.6226	23.2000
44,617	W. 6012	9.0	8.4834	4.0540	45,205	A. 6975	8.3	24.3575	12.7777	46,150	A. 7080	8.5	17.9888	13.0226
44,712	A. 6840	8.9	11.9917	16.6556	R.A. 17^h 4^m					46,066	W. 6210	9.4	18.5770	9.4236
44,760	A. 6841	7.4	12.0191	24.4313	45,605	A. 6975	8.3	1.5274	12.7783	46,347	A. 7084	9.0	18.7473	24.8568
44,612	W. 6015	9.1	14.3622	2.9593	45,568	W. 6112	9.2	2.8534	10.7296	46,067	W. 6211	6.5	18.9069	8.8323
44,633	W. 6017	8.7	15.1795	5.9258	45,857	A. 6982	8.7	5.1444	24.3561	46,325	A. 7087	8.5	19.0764	23.8858
44,646	W. 6018	9.3	15.3577	7.4362	45,706	A. 6984	8.3	5.3218	17.8521	46,300	A. 7089	8.7	19.8066	21.6566
44,735	A. 6844	8.6	15.3458	20.2689	45,482	W. 6117	9.4	6.6844	4.3718	46,219	A. 7098	8.9	22.6864	12.2457
44,667	A. 6859	8.7	21.9768	12.1666	45,909	A. 6987	8.1	6.9586	25.8697	46,130	A. 7099	9.2	22.7866	12.3969
44,790	A. 6864	8.2	22.6372	25.9996	45,708	A. 6988	8.4	7.0023	18.1238	46,273	A. 7103	8.9	23.6706	19.7263
44,752	A. 6866	7.9	23.4055	22.0439	45,457	W. 6120	9.0	7.5325	3.8692	46,073	W. 6221	9.0	24.7711	9.1323
44,686	A. 6867	8.6	24.3249	14.0628	45,590	A. 6989	9.3	7.8339	11.8763	45,990	W. 6222	9.0	25.1245	2.4809
44,668	A. 6869	9.0	25.3620	12.4830	45,685	A. 6990	9.1	8.1750	16.6729	R.A. 17^h 20^m				
R.A. 16^h 48^m					45,505	W. 6124	6.5	8.5358	6.7230	46,896	A. 7103	8.9	0.9155	19.7341
..	W. 6032	9.0	0.7314	14.0647	45,664	A. 6992	8.6	8.6663	15.9612	46,620	W. 6221	9.0	1.9017	9.1283
44,911	A. 6867	8.6	1.5087	14.0636	45,615	A. 6993	8.1	9.0668	13.4664	46,460	W. 6222	9.0	2.1834	2.4739
44,904	A. 6869	9.0	2.5287	12.4728	..	W. 6127	8.6	9.0910	0.0036	46,898	A. 7110	8.8	3.0707	19.5676
44,801	W. 6035	9.6	4.2700	1.1277	45,499	W. 6129	9.0	10.9106	6.2761	46,481	W. 6226	8.6	3.1714	3.9289
45,014	A. 6871	9.0	4.3758	23.5613	45,654	A. 6997	8.4	10.9804	14.5209	46,965	A. 7112	8.8	3.4182	25.0861
45,046	A. 6875	7.7	5.3765	25.1961	45,863	A. 6998	9.0	11.0344	24.4773	46,482	W. 6227	9.4	3.5347	3.9869
44,873	W. 6037	8.4	6.1165	10.2280	45,747	A. 7000	9.0	12.4359	19.5933	46,625	W. 6228	8.4	3.7613	8.2920
44,849	W. 6038	9.0	7.9077	6.9690	45,596	W. 6136	8.9	13.5348	11.6511	46,772	A. 7117	9.0	4.4502	14.1114
45,047	A. 6881	8.8	8.3495	24.9276	45,822	A. 7006	8.9	14.2852	22.5917	46,740	A. 7120	8.9	5.3641	13.2608
45,002	A. 6891	8.1	13.2941	21.8878	45,773	A. 7010	9.0	15.3649	20.5533	46,710	A. 7122	8.4	6.1188	11.5138
44,885	W. 6046	8.2	13.4008	10.7256	45,889	A. 7011	9.0	15.9654	24.8204	46,514	W. 6234	9.0	7.0215	4.5621
44,976	A. 6892	8.6	13.5019	19.9396	45,619	A. 7014	9.3	16.6343	13.4031	46,776	A. 7126	8.4	8.6437	13.4835
44,992	A. 6900	7.4	16.5756	21.6633	45,530	W. 6143	9.0	16.8952	8.0130	46,936	A. 7127	8.8	9.0439	22.0531
44,879	W. 6051	8.9	19.2871	9.9535	45,825	A. 7017	9.0	16.9775	21.9891	46,851	A. 7129	6.3	9.4729	17.2377
44,907	A. 6907	8.4	20.9186	12.6921	45,715	A. 7021	9.0	17.3633	18.6090	46,937	A. 7131	8.8	10.1592	22.1988
44,880	W. 6059	9.0	22.4474	10.2582	45,669	A. 7023	8.5	17.8805	15.6338	46,902	A. 7135	9.0	11.1987	20.1874
44,869	W. 6060	8.8	22.5430	8.9060	45,829	A. 7026	9.0	19.9158	22.4244	46,803	A. 7137	8.3	11.5636	15.2888
44,909	A. 6913	9.1	23.9725	13.3406	45,448	W. 6151	8.4	20.0558	2.4957	46,412	W. 6246	8.7	14.1717	0.9085
R.A. 16^h 56^m					45,721	A. 7028	8.2	20.3888	18.1087	46,528	W. 6249	9.0	15.1266	4.4295
45,209	A. 6913	9.1	1.1484	13.3453	45,625	A. 7029	8.8	20.5796	13.1963	46,962	A. 7151	9.0	16.3106	23.8656
45,356	A. 6919	9.0	2.6826	25.9064	45,515	W. 6153	8.6	20.6254	6.7962	46,836	A. 7154	8.3	17.9288	16.1129
45,166	W. 6064	9.0	2.8125	9.4514	45,581	W. 6154	9.0	20.9720	11.4033	46,838	A. 7160	8.5	20.8028	15.5802
					45,722	A. 7031	8.8	21.0497	18.2228	46,724	A. 7161	8.4	20.9318	11.9554
					45,516	W. 6157	9.0	21.2517	6.6709	46,912	A. 7163	9.0	22.6252	20.0188
					45,894	A. 7033	8.8	21.9469	25.6871	46,914	A. 7164	8.8	23.1818	20.0209
					45,781	A. 7036	8.8	23.0482	20.4960	46,674	W. 6265	9.0	24.0162	9.7707
					45,728	A. 7038	8.4	23.7361	18.0337	46,675	W. 6266	9.0	24.0236	9.7384
					45,850	A. 7040	8.1	23.8379	23.3290	46,584	W. 6267	9.2	24.2330	7.1719
					45,647	A. 7042	8.2	24.6249	14.2343	46,677	W. 6269	8.6	24.8445	9.8201

Reference No. Mag. Standard co-ordinates, 1900-0.					Reference No. Mag. Standard co-ordinates, 1900-0.					Reference No. Mag. Standard co-ordinates, 1900-0.				
Hyd.	Wash. or Alg.	ξ.	η.		Hyd.	Wash. or Alg.	ξ.	η.		Hyd.	Wash. or Alg.	ξ.	η.	
R.A. 17^h 28^m					R.A. 17^h 36^m (continued)					R.A. 18^h 0^m				
47,293	W. 6265	9-0	1-1534	9-7747	47,823	W. 6384	8-8	21-9512	3-2175	49,915	A. 7413	8-7	2-9752	11-1112
47,294	W. 6266	9-0	1-1608	9-7424	47,837	W. 6388	9-2	22-9158	3-3456	49,601	W. 6496	9-0	3-0890	2-5463
47,208	W. 6267	9-2	1-3425	7-1739	48,003	A. 7280	9-1	24-0468	18-9548	49,771	W. 6497	8-2	4-0668	7-2830
47,297	W. 6269	8-6	1-9825	9-8160	47,894	W. 6390	9-2	24-6709	8-2915	50,041	A. 7418	9-0	4-8691	13-8794
47,173	W. 6273	9-0	3-4013	5-7592						49,736	W. 6499	8-1	5-2095	5-9848
47,727	A. 7168	8-2	3-9046	25-4494						49,960	A. 7423	8-8	5-3789	12-7484
47,332	W. 6277	9-1	3-9786	10-6367						49,812	W. 6502	8-0	5-9464	8-3447
47,135	W. 6281	8-5	4-8108	4-5601						50,008	A. 7427	8-8	6-8405	13-5757
47,044	W. 6283	8-6	5-5775	1-7891						50,392	A. 7428	9-0	6-9904	23-6040
47,396	A. 7175	8-8	6-2721	13-0440						50,121	A. 7429	8-8	7-0817	16-6684
47,103	W. 6286	9-3	7-5056	3-9937						50,240	A. 7432	8-6	7-5010	19-4446
47,181	W. 6291	7-9	10-6093	6-0880						..	W. 6504	9-1	7-6639	0-2603
47,403	A. 7185	8-8	11-5228	12-6543						49,700	W. 6506	8-2	8-8077	5-2880
47,111	W. 6294	9-0	11-8151	3-7751						49,515	W. 6508	8-6	9-6206	1-4314
47,511	A. 7188	7-8	11-8548	16-2193						50,498	A. 7444	8-7	9-8905	25-5491
47,763	A. 7189	9-0	12-1890	25-8468						49,661	W. 6515	9-2	11-8776	4-5609
47,316	W. 6299	8-8	13-4343	10-1907						50,501	A. 7463	8-7	14-7709	25-9171
47,052	W. 6300	9-1	13-8452	1-8243						49,613	W. 6522	9-1	15-1428	3-5087
47,116	W. 6301	9-2	14-1748	4-0138						50,449	A. 7467	7-3	15-3335	24-9223
47,644	A. 7195	9-1	14-2011	21-4911						..	W. 6525	8-8	15-6279	0-1784
47,479	A. 7198	7-0	15-0221	14-8289						50,359	A. 7469	9-0	15-6492	22-8202
47,481	A. 7201	8-9	16-0492	15-2215						50,054	W. 6526	9-4	15-6954	14-0110
47,220	W. 6305	9-5	16-0982	6-4060						50,022	A. 7479	9-1	18-2141	13-4592
47,514	A. 7202	9-1	16-3628	16-1198						49,620	W. 6536	7-5	18-7525	3-0227
47,485	A. 7205	8-5	17-2303	15-1462						50,365	A. 7481	8-6	19-5716	22-5906
47,628	A. 7212	8-9	18-9480	19-9206						50,456	A. 7482	9-0	19-9843	24-3421
47,120	W. 6313	9-2	19-4962	3-9006						49,902	W. 6541	9-0	20-6742	9-9001
47,353	W. 6316	8-0	19-8319	10-5700						49,982	A. 7492	8-7	21-5092	12-8531
47,381	A. 7219	9-0	21-6828	11-6980						49,793	W. 6546	9-2	21-6809	7-2842
47,496	A. 7220	8-6	21-8630	14-4667						49,535	W. 6547	9-1	21-9500	1-1189
47,719	A. 7221	7-3	21-9582	24-1497						49,798	W. 6554	9-4	23-9950	7-6166
47,326	W. 6333	8-9	23-9092	10-2175						49,675	W. 6562	8-9	25-3182	3-7122
										49,904	W. 6563	8-8	25-3644	10-0427
R.A. 17^h 36^m										R.A. 18^h 8^m				
47,907	W. 6333	8-9	1-0515	10-2226	48,784	W. 6436	9-2	1-3003	4-1772	50,930	W. 6554	9-4	1-1094	7-6216
47,952	A. 7236	8-8	4-1817	14-4665	48,802	W. 6437	8-9	2-0060	5-7142	50,745	W. 6562	8-9	2-3902	3-7033
47,856	W. 6343	9-0	5-1845	5-6760	49,103	A. 7335	8-9	2-7660	18-3368	51,033	W. 6563	8-8	2-5047	10-0326
47,984	A. 7239	8-7	5-7174	17-2646	49,372	A. 7338	9-0	3-4427	24-6325	51,747	A. 7507	9-5	2-8711	21-1539
47,880	W. 6347	9-4	8-1867	7-3811	49,055	A. 7341	8-3	5-1471	16-2915	51,375	A. 7508	8-7	2-8847	15-5771
47,966	A. 7241	8-7	8-4441	15-1006	49,027	A. 7345	8-9	6-6953	15-2388	51,081	W. 6566	8-7	3-5597	10-3337
47,833	W. 6349	9-0	9-4787	3-5528	49,379	A. 7346	9-0	7-2964	24-9484	51,840	A. 7511	8-6	3-6356	21-6430
47,941	A. 7243	8-6	9-8097	13-3711	49,231	A. 7347	6-2	7-4146	22-4220	51,188	A. 7515	8-9	4-0264	12-2642
47,956	A. 7248	9-0	10-9573	14-1399	48,808	W. 6446	9-1	8-2280	6-0402	50,684	W. 6571	9-2	4-1804	2-9317
48,009	A. 7250	8-7	11-4275	20-0602	49,382	A. 7349	9-1	8-2283	25-4937	50,685	W. 6573	8-8	4-2317	2-9620
47,928	A. 7251	8-7	11-4983	11-8619	49,139	A. 7355	9-0	9-9000	18-7898	52,023	A. 7517	9-1	4-5807	23-6837
47,834	W. 6355	9-0	11-6018	3-3705	49,343	A. 7357	9-1	10-3654	24-2787	51,672	A. 7519	8-1	4-9677	19-8152
47,884	W. 6356	9-0	12-2419	7-4860	48,766	W. 6455	9-0	10-9094	4-1481	50,889	W. 6574	9-2	5-1258	7-0882
47,885	W. 6360	9-1	13-0682	8-2919	49,008	W. 6456	9-2	11-0816	13-9056	50,846	W. 6576	8-8	5-4386	5-8570
47,929	A. 7254	8-8	13-0956	11-7890	49,030	A. 7359	8-9	11-4334	15-2676	52,221	A. 7524	8-9	6-9820	25-7986
47,917	W. 6362	9-3	13-4399	10-5414	49,009	A. 7360	8-6	11-5866	13-5555	52,222	A. 7528	8-8	7-3379	25-9567
47,807	W. 6363	8-8	13-9077	1-0103	49,208	A. 7362	8-8	11-8218	21-0324	51,757	A. 7529	9-1	7-4515	21-3483
47,992	A. 7260	8-9	15-0870	17-8681	49,064	A. 7371	9-3	13-7878	15-9524	51,588	A. 7531	8-2	8-2403	18-4423
47,932	A. 7262	9-2	15-8591	11-8112	49,032	A. 7373	8-7	14-1744	14-9400	50,849	W. 6588	9-0	8-4603	5-7931
47,976	A. 7264	8-8	16-7945	16-0568	49,247	A. 7376	8-6	15-4221	21-9300	52,035	A. 7533	9-0	9-0625	23-6197
47,873	W. 6374	9-2	17-2901	6-5016	48,916	W. 6469	9-2	16-2484	10-2085	51,516	A. 7535	8-9	9-3016	18-0565
48,050	A. 7269	8-8	18-6331	24-9395	49,038	A. 7383	8-3	17-3767	15-3746	50,896	W. 6596	8-4	9-9035	6-2640
47,904	W. 6378	8-8	19-6166	9-3830	49,149	A. 7386	8-8	18-2711	19-5500	51,453	A. 7541	9-0	10-7109	17-0423
47,861	W. 6380	8-2	20-0442	5-7127	49,312	A. 7387	8-9	18-5276	22-8073	51,950	A. 7548	9-2	12-2488	22-8261
47,815	W. 6382	8-7	20-5386	2-2168	48,921	W. 6476	9-0	19-5255	10-3371	51,528	A. 7551	8-2	12-3899	17-9732
48,015	A. 7276	8-6	21-7268	20-3816	49,184	A. 7393	8-1	20-4190	19-8917					
					49,043	A. 7395	8-8	21-1093	15-3133					
					49,020	A. 7405	8-1	22-1328	14-1794					
					49,019	W. 6485	8-7	22-1347	13-8474					
					48,751	W. 6487	6-9	23-2474	2-8575					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.
R.A. 18^h 8^m (continued)					R.A. 18^h 16^m (continued)					R.A. 18^h 24^m (continued)				
50,762	W. 6604	8.9	12.7970	3.1979	52,472	W. 6700	8.6	11.0860	6.1119	..	W. 6813	8.8	22.7512	0.0585
50,707	W. 6605	9.1	12.8280	3.0096	53,113	A. 7642	6.0	11.5822	23.8555	..	W. 6816	8.4	23.4781	0.3689
52,129	A. 7553	8.8	12.9078	25.1939	52,974	A. 7645	8.7	12.1511	18.6766	53,570	W. 6821	8.9	25.0470	8.3925
51,861	A. 7555	9.3	13.3692	22.4956	53,001	A. 7646	8.7	12.4667	19.7716	53,262	W. 6822	9.0	25.3037	0.9397
52,059	A. 7558	9.5	14.5149	24.4820	52,439	W. 6706	9.4	12.5818	4.8986	R.A. 18^h 32^m				
51,338	A. 7559	8.5	14.6285	15.1433	52,676	A. 7647	8.8	12.6504	12.3173	54,860	W. 6821	8.9	2.1695	8.3865
51,208	A. 7561	9.1	14.6336	12.7676	52,314	W. 6708	9.0	12.9880	0.8602	54,606	W. 6822	9.0	2.3458	0.9308
51,462	A. 7562	8.9	14.7090	16.6197	52,507	W. 6710	9.2	13.9472	6.6906	54,939	W. 6825	9.0	2.6488	10.2711
50,860	W. 6609	9.0	15.3295	5.6959	52,315	W. 6713	9.0	14.5816	0.1710	54,607	W. 6826	8.7	3.2368	1.2046
51,970	A. 7567	8.2	15.4510	22.7445	52,444	W. 6716	8.9	15.0442	5.2061	55,174	A. 7773	8.8	3.4061	17.6149
51,695	A. 7572	8.1	16.2382	19.9451	52,510	W. 6717	9.1	15.4198	6.4991	54,648	W. 6832	8.1	5.3442	1.7755
52,165	A. 7575	8.0	16.9458	25.2762	53,053	A. 7659	8.9	15.5856	22.2049	55,269	A. 7785	8.2	6.5918	20.5687
51,001	W. 6614	9.2	16.9715	9.0080	52,511	W. 6719	9.0	15.9086	6.9433	55,376	A. 7790	8.2	9.2315	23.4234
50,716	W. 6616	8.8	17.1608	2.6211	52,317	W. 6720	8.6	15.9645	0.6774	54,774	W. 6842	8.6	9.8202	4.4658
51,539	A. 7578	8.7	17.5465	17.6578	52,614	W. 6722	8.6	16.3820	9.7123	55,059	A. 7799	9.1	10.8902	13.1127
51,794	A. 7579	6.5	17.6495	21.3104	52,343	W. 6723	9.0	16.7852	1.7989	54,881	W. 6852	9.1	12.2401	7.6090
52,077	A. 7582	9.2	18.3562	24.3156	52,449	W. 6727	9.1	17.3761	5.0586	54,740	W. 6853	9.3	12.6318	3.9068
50,628	W. 6622	8.6	18.5809	1.0312	52,380	W. 6728	9.4	17.6477	3.0988	54,741	W. 6854	9.2	12.8844	3.9361
51,403	A. 7583	9.5	18.6251	15.6903	52,416	W. 6729	9.2	17.9553	3.9574	54,782	W. 6856	7.6	13.1480	4.7899
51,622	A. 7584	9.9	18.8318	18.5881	52,800	A. 7676	8.9	20.1135	14.7488	54,661	W. 6858	9.2	13.4929	1.5106
51,404	A. 7585	8.0	18.9070	16.2757	52,719	A. 7679	9.2	20.8270	12.6425	55,221	A. 7812	8.6	14.3687	18.6258
51,013	W. 6626	8.2	19.1051	8.6812	52,881	A. 7680	9.0	21.1198	17.0166	55,387	A. 7814	9.3	15.3707	23.4379
51,990	A. 7587	8.6	19.5860	22.9852	53,061	A. 7681	9.0	21.1021	22.4859	55,353	A. 7823	8.9	17.5928	22.1294
52,190	A. 7588	8.7	20.2031	25.0806	52,453	W. 6736	9.0	21.5757	4.6436	55,000	A. 7829	9.2	19.4101	11.3313
51,996	A. 7590	8.6	20.8030	23.0894	53,008	A. 7683	7.9	21.9019	20.1219	54,721	W. 6877	8.8	23.1343	3.0324
51,721	A. 7591	9.0	21.3932	20.0258	52,882	A. 7684	8.7	22.2583	16.9947	55,364	A. 7838	9.1	23.5990	22.8275
51,229	A. 7592	8.6	21.6947	12.7359	52,548	W. 6741	9.2	22.8216	7.8967	55,455	A. 7840	9.3	23.7379	25.2015
52,199	A. 7593	7.8	21.7614	25.0461	52,387	W. 6746	9.2	24.3838	2.6125	55,100	A. 7839	8.8	23.7409	14.0034
50,880	W. 6640	7.0	22.6585	5.9196	53,011	A. 7690	8.8	25.3081	20.1822	R.A. 18^h 40^m				
50,637	W. 6641	9.0	22.9794	0.5823	R.A. 18^h 24^m					55,919	A. 7838	9.1	0.8774	22.8364
51,647	A. 7598	7.5	23.2696	19.0111	53,311	W. 6746	9.2	1.4441	2.6135	55,706	A. 7839	8.8	0.9241	14.0106
51,173	A. 7604	8.9	24.6232	1.14214	54,109	A. 7690	8.8	2.5578	20.1720	55,977	A. 7840	9.3	1.0419	25.2083
51,913	A. 7605	8.5	24.6396	21.9025	53,884	A. 7692	8.5	3.2861	14.7461	55,522	W. 6883	7.8	2.5984	2.2961
51,915	A. 7607	9.0	24.8591	22.6264	53,585	W. 6755	8.0	3.9588	9.5670	55,674	A. 7851	9.2	3.2743	12.3966
R.A. 18^h 16^m					54,168	A. 7696	8.6	4.7338	21.0909	55,656	A. 7854	8.9	4.6624	11.1420
52,657	A. 7604	8.9	1.7785	11.4192	53,374	W. 6756	8.4	4.7517	4.0867	55,759	A. 7856	8.8	5.3492	16.1044
53,041	A. 7605	8.5	1.9080	21.8996	54,115	A. 7697	9.5	4.7686	20.6502	55,596	W. 6902	9.2	6.3775	7.1901
53,080	A. 7607	9.0	2.1352	22.6209	53,973	A. 7698	9.1	4.7824	17.7661	55,625	W. 6903	8.8	6.9818	8.7313
52,946	A. 7610	8.0	3.0741	19.1831	54,071	A. 7699	8.7	4.9021	19.6412	55,528	W. 6906	8.1	7.4547	1.4851
52,529	W. 6655	7.5	3.2064	7.8841	53,459	W. 6757	8.6	5.2043	5.6127	55,818	A. 7864	9.2	7.5194	18.3098
52,350	W. 6657	8.9	3.5724	2.7853	54,402	A. 7700	8.3	5.3806	25.1675	55,939	A. 7866	8.8	7.9206	23.3571
53,017	A. 7613	7.7	4.0418	20.9154	53,418	W. 6759	8.5	5.4754	5.0678	55,733	A. 7875	9.0	10.6858	15.3329
53,018	A. 7614	8.6	4.0866	20.8799	54,019	A. 7702	8.7	5.6728	18.2199	55,629	W. 6913	7.8	12.4344	8.7701
52,855	A. 7616	9.0	4.2477	16.9858	53,212	W. 6760	9.0	5.6730	0.9245	55,821	A. 7880	8.3	13.1005	18.6091
52,813	A. 7617	8.3	4.2489	15.5470	53,699	A. 7707	7.5	7.5917	11.3386	..	W. 6919	9.0	15.7831	0.0062
52,992	A. 7620	8.0	4.8488	19.5851	53,278	W. 6773	9.0	9.4112	1.4822	55,944	A. 7894	8.6	17.7960	23.3432
52,817	A. 7623	9.0	6.1509	16.1255	54,080	A. 7719	8.9	9.9423	19.8388	55,906	A. 7897	9.0	18.4678	21.5435
52,594	W. 6674	9.0	6.3859	10.1744	54,419	A. 7721	8.6	10.4839	25.3030	55,795	A. 7900	7.8	19.0620	17.0592
52,958	A. 7627	9.1	7.0187	19.0728	53,470	W. 6781	9.2	12.1698	6.0073	55,848	A. 7902	8.9	19.3402	19.4000
52,631	W. 6678	7.2	7.2897	10.5089	54,241	A. 7728	6.9	13.9046	22.5055	55,512	W. 6931	9.2	19.3948	0.9156
52,562	W. 6679	8.8	7.4805	8.8446	53,437	W. 6791	8.9	16.0226	4.9254	55,929	A. 7906	8.6	21.1139	22.7417
52,358	W. 6680	9.0	7.5191	2.3725	54,372	A. 7733	9.8	16.2091	24.3740	55,910	A. 7907	7.2	21.2298	21.5609
52,361	W. 6681	9.2	7.7721	2.2176	54,374	A. 7734	7.5	17.1167	24.6676	55,911	A. 7909	8.1	21.3903	21.9292
52,365	W. 6682	9.2	7.9675	2.2111	53,712	A. 7735	9.0	17.2040	11.1908	55,550	W. 6935	8.5	21.4356	2.7688
52,366	W. 6683	9.4	8.3419	2.9095	53,992	A. 7738	8.3	17.3738	16.9843	55,516	W. 6939	9.1	22.5438	0.9569
53,025	A. 7634	9.0	8.5224	20.6113	54,050	A. 7739	6.5	17.4936	18.6591	55,948	A. 7910	8.6	22.9780	23.6133
52,368	W. 6688	9.1	9.1274	2.8794	53,235	W. 6800	9.6	18.5815	1.3538	55,808	A. 7911	8.7	23.1253	17.7611
52,369	W. 6690	9.2	9.2690	2.7369	54,380	A. 7745	9.0	18.9308	24.8607	55,856	A. 7912	8.7	23.1761	19.3301
52,636	W. 6691	8.9	9.6093	10.5024	54,052	A. 7754	9.2	20.3915	18.1401					
52,596	W. 6693	9.1	9.7161	9.3994	54,455	A. 7755	7.6	20.3774	25.5484					
52,405	W. 6697	8.4	10.6918	3.3449	54,054	A. 7759	7.7	22.4261	18.3186					

Reference No.					Reference No.					Reference No.				
Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.			Mag.		Standard co-ordinates, 1900-0.		
Hyd.	Wash. or Alg.	ξ'.	η'.		Hyd.	Wash. or Alg.	ξ'.	η'.		Hyd.	Wash. or Alg.	ξ'.	η'.	
R.A. 18^h 40^m (continued)					R.A. 18^h 56^m (continued)					R.A. 19^h 12^m (continued)				
55,995	A. 7915	8.3	23.5342	25.2791	56,958	A. 8045	9.1	13.8620	19.2317	57,925	A. 8166	8.2	3.1847	13.8829
55,518	W. 6943	8.2	23.9291	1.2362	56,992	A. 8046	9.0	13.9028	21.2683	57,977	A. 8169	8.8	3.6837	15.7894
55,749	A. 7918	8.9	24.3953	15.4741	56,653	W. 7037	8.2	13.9172	0.9717	57,718	W. 7155	8.9	4.3242	3.2767
55,520	W. 6944	9.2	24.5442	1.4258	56,906	A. 8047	9.1	14.8068	16.0508	58,082	A. 8175	9.1	4.4627	21.1962
55,859	A. 7921	8.6	24.9115	19.6285	56,693	W. 7044	8.8	15.8058	2.7633	57,893	A. 8176	9.0	4.5526	11.7677
55,703	A. 7922	8.7	25.1079	13.6555	56,654	W. 7045	9.1	16.1313	0.7954	57,795	W. 7159	7.8	4.5731	7.2380
R.A. 18^h 48^m					56,812	A. 8055	9.1	16.9603	10.4197	57,719	W. 7160	9.0	4.8780	4.1446
56,053	W. 6943	8.2	0.9746	1.2421	56,771	W. 7052	9.1	17.7362	6.4693	57,671	W. 7166	9.0	6.6545	1.3960
56,054	W. 6944	9.2	1.5917	1.4248	56,887	A. 8058	9.0	17.5283	15.5662	57,816	W. 7173	8.9	8.0666	7.3849
56,286	A. 7918	8.9	1.5943	15.4741	57,045	A. 8060	8.3	17.8049	24.4211	58,124	A. 8184	8.5	8.2386	22.9483
56,392	A. 7921	8.6	2.1553	19.6226	56,845	W. 7055	8.4	19.5772	1.4716	57,696	W. 7175	Var.	8.6077	2.7592
56,253	A. 7922	8.7	2.2873	13.6479	57,029	A. 8066	8.8	19.6568	11.9012	57,877	A. 8190	8.9	9.8019	10.9867
56,548	A. 7923	8.7	2.7897	26.0438	56,846	A. 8072	8.8	21.3593	23.2908	57,724	W. 7184	8.3	10.9449	3.7581
56,115	W. 6948	9.3	3.2171	5.2302	56,773	A. 8073	8.8	21.4505	12.4215	58,146	A. 8201	8.8	11.6638	24.3114
56,220	A. 7933	8.7	4.9722	11.8748	56,658	W. 7062	8.8	21.5413	6.7843	58,105	A. 8202	8.5	11.8788	22.1055
56,272	A. 7936	9.2	5.4185	14.5054	56,943	W. 7063	8.8	21.7841	1.1214	57,910	A. 8205	8.6	12.1964	13.0001
56,199	A. 7937	8.6	5.5807	10.8786	56,660	A. 8077	8.9	22.6725	18.3861	57,934	A. 8207	8.3	12.4511	14.1838
56,141	W. 6956	9.2	5.7767	7.2211	56,661	W. 7067	9.4	22.8998	0.3192	57,958	A. 8209	8.7	12.8499	15.4033
56,095	W. 6958	7.4	5.9300	4.2645	56,907	W. 7068	8.6	22.9602	1.2178	57,678	W. 7193	8.2	13.2275	2.1987
56,055	W. 6959	9.0	6.0248	0.8447	56,729	A. 8078	9.0	23.6446	16.1291	58,003	A. 8214	8.6	13.9214	17.6520
56,127	W. 6962	8.4	6.7354	6.1411	56,924	W. 7069	9.4	23.7252	4.8632	58,066	A. 8217	8.7	14.4564	20.7088
56,404	A. 7944	9.0	7.6308	19.7864	R.A. 19^h 4^m					57,701	W. 7199	9.2	14.5249	3.1862
56,058	W. 6965	8.9	7.9236	0.8099	57,183	W. 7069	9.4	0.8098	4.8711	57,730	W. 7201	9.0	14.7253	4.1008
56,352	A. 7958	7.0	10.4082	17.5557	57,410	A. 8078	9.0	0.8507	16.1374	58,129	A. 8218	8.0	14.8567	23.5298
56,460	A. 7959	6.9	10.8669	22.0886	57,440	A. 8081	8.4	2.1899	16.8315	57,781	W. 7205	8.4	15.4202	5.7499
56,509	A. 7963	8.8	11.5254	23.8933	57,169	W. 7077	9.0	4.1896	4.1043	58,148	A. 8220	8.5	15.5228	24.0093
56,378	A. 7965	9.1	11.9588	19.1678	57,208	W. 7078	9.0	4.2458	5.8014	57,704	W. 7206	8.9	15.7106	3.2690
56,059	W. 6974	9.2	12.4316	1.6676	57,376	A. 8084	9.0	4.5719	13.9906	57,936	A. 8224	8.7	16.3423	14.3153
56,106	W. 6981	9.0	15.9191	4.4709	57,564	A. 8087	7.0	5.2939	23.7146	57,682	W. 7210	9.0	16.6162	1.9176
56,190	W. 6984	9.0	16.0204	9.1391	57,357	A. 8090	8.6	5.6661	13.1360	57,705	W. 7215	9.2	17.6482	2.6437
56,212	W. 6988	9.1	17.3133	10.0898	57,358	A. 8092	8.8	5.8776	13.2313	57,707	W. 7217	8.9	18.4880	3.3077
56,231	A. 7991	9.0	18.2770	11.4749	57,211	W. 7086	8.4	5.8968	5.7658	58,179	A. 8238	8.7	20.3451	25.5880
56,446	A. 7992	8.8	18.6254	20.9378	57,192	W. 7088	9.4	5.9417	4.6172	57,734	W. 7224	7.9	20.9028	3.7657
56,265	A. 7993	8.6	18.8626	13.4668	57,565	A. 8094	9.2	6.6871	23.6035	57,760	W. 7226	9.1	21.1368	4.7671
56,192	W. 6996	9.0	18.9322	9.5071	57,330	A. 8099	8.9	8.0224	10.9242	58,091	A. 8245	8.1	22.4282	21.4701
56,119	W. 6999	9.1	19.1858	5.1640	57,214	W. 7092	9.1	8.4127	5.5940	58,138	A. 8246	8.6	22.6974	23.0763
56,490	A. 7994	7.2	19.7566	23.0597	57,571	A. 8109	7.4	10.4505	23.0891	57,788	W. 7229	9.2	23.5852	5.9456
56,514	A. 7995	8.9	20.0219	23.4154	57,284	W. 7097	8.2	10.5410	9.2790	57,919	A. 8249	4.8	24.0485	13.4557
56,178	W. 7001	9.1	20.3642	8.3920	57,512	A. 8112	8.7	11.0404	20.7715	57,789	W. 7231	8.0	24.2384	6.2140
56,161	W. 7003	7.8	21.3966	7.8985	57,136	W. 7105	8.4	11.9415	1.5332	58,053	A. 8251	6.8	24.4215	18.9549
56,122	W. 7004	8.8	21.6904	5.5322	57,572	A. 8116	9.1	12.2359	23.6142	R.A. 19^h 20^m				
56,421	A. 8002	9.2	23.5116	19.6668	57,573	A. 8121	9.2	12.7250	23.0960	58,238	W. 7229	9.2	0.6814	5.9547
R.A. 18^h 56^m					57,286	W. 7110	8.6	13.7737	8.9987	58,313	A. 8249	4.8	1.2258	13.4596
56,968	A. 8002	9.2	0.7558	19.6765	57,342	A. 8129	9.1	15.4771	11.6952	58,249	W. 7231	8.0	1.3367	6.2160
56,862	A. 8012	9.1	2.9408	13.7957	57,477	A. 8136	9.2	17.1221	18.2775	58,370	A. 8251	6.8	1.6581	18.9545
56,787	W. 7011	9.4	3.7693	8.3797	57,265	W. 7119	8.9	17.2038	8.1512	58,381	A. 8256	9.0	2.8849	20.0786
56,984	A. 8014	8.3	3.3755	21.0033	57,452	A. 8138	9.2	18.0110	17.5112	58,405	A. 8262	9.4	4.0684	22.0549
56,864	A. 8018	8.7	4.4575	13.9123	57,165	W. 7134	9.0	21.4903	2.9411	58,325	A. 8265	8.9	4.7509	15.1642
56,702	W. 7016	9.2	5.4732	3.6628	57,166	W. 7135	8.8	21.9594	2.9808	58,275	W. 7245	8.0	5.0135	9.5595
56,988	A. 8023	6.8	6.1633	21.4337	57,180	W. 7140	9.0	22.9529	4.3002	58,326	A. 8269	8.5	6.2090	15.3023
56,851	A. 8025	8.4	6.2774	13.2024	57,619	A. 8155	8.9	23.0820	25.3044	58,327	A. 8270	8.8	6.2668	15.2579
56,973	A. 8028	8.3	7.2651	19.8693	57,620	A. 8163	9.2	24.5153	25.4085	58,328	A. 8271	8.5	6.3273	15.3167
56,866	A. 8032	8.9	8.3369	13.8584	57,118	W. 7147	9.0	24.5791	1.0742	58,315	A. 8272	8.8	6.3660	13.5674
56,791	W. 7027	8.4	9.0437	8.4723	R.A. 19^h 12^m					58,288	A. 8273	8.8	6.9287	10.4849
56,687	W. 7028	8.5	9.2105	2.5987	57,651	W. 7147	9.0	1.6228	1.0732	58,243	W. 7255	8.0	7.3930	5.6572
56,721	W. 7029	8.0	9.9035	5.2634	58,161	A. 8163	9.2	1.8214	25.4067	58,397	A. 8277	9.0	7.4219	21.2577
56,762	W. 7035	8.4	13.1245	6.9068						58,308	A. 8279	8.8	8.4990	12.7575
56,711	W. 7036	8.6	13.5392	3.6258						58,407	A. 8280	9.1	8.8384	22.2955
										58,419	A. 8287	7.7	10.1907	22.7436
										58,343	A. 8288	9.1	10.5209	15.7135
										58,278	W. 7264	9.2	10.7002	9.3865

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 19^h 20^m (continued)					R.A. 19^h 36^m					R.A. 19^h 52^m (continued)				
58,388	A. 8290	9.0	10.8044	20.2277	58,824	A. 8412	9.1	3.4308	17.2228	59,369	A. 8545	8.7	10.2216	13.1055
58,299	A. 8292	8.8	10.8482	11.6101	58,723	W. 7373	8.8	4.2963	4.8601	59,422	A. 8546	9.0	10.2433	19.1450
58,408	A. 8293	7.0	10.9815	22.1004	58,763	W. 7376	9.2	5.5884	8.5893	59,436	A. 8548	8.7	10.7317	20.5288
58,291	A. 8294	8.8	11.7458	11.0671	58,706	W. 7377	8.1	5.7048	2.6609	59,287	W. 7499	9.2	12.2707	5.2137
58,211	W. 7269	8.4	11.7425	1.3693	58,707	W. 7378	8.1	5.7353	2.6392	59,425	A. 8553	8.7	13.8077	19.6604
58,204	W. 7270	9.0	11.8413	0.2214	58,724	W. 7383	9.4	7.7516	4.3895	59,463	A. 8554	8.7	14.2623	23.6445
58,375	A. 8300	9.3	12.8137	19.0859	58,725	W. 7386	9.3	7.8346	4.3646	59,453	A. 8556	8.4	15.2651	20.8106
58,376	A. 8301	9.1	12.9194	19.1492	58,770	W. 7388	9.1	7.9843	9.2939	59,417	A. 8558	9.0	16.0192	18.6477
58,234	W. 7278	9.0	14.7041	4.9809	58,813	A. 8426	8.3	8.6533	14.4537	59,398	A. 8561	8.5	16.6640	15.7585
58,208	W. 7281	8.8	15.9156	0.7902	58,850	A. 8427	8.8	8.7358	19.5419	59,357	A. 8565	9.3	18.2016	11.7551
58,344	A. 8311	9.1	16.4176	15.9571	58,709	W. 7392	8.8	8.8261	2.2904	59,442	A. 8570	8.5	21.3477	19.7732
58,390	A. 8317	7.6	18.2667	19.6220	58,852	A. 8440	9.2	13.5303	20.0563	59,403	A. 8571	8.9	21.5231	15.7694
58,428	A. 8318	8.5	18.5488	24.6414	58,817	A. 8441	9.2	13.9318	15.6482	59,332	W. 7515	9.4	22.5693	9.2043
58,391	A. 8323	7.5	19.4562	19.7471	58,868	A. 8443	8.9	14.8333	22.0983	59,274	W. 7522	8.2	23.9343	2.7361
58,304	A. 8326	9.0	20.6138	12.1409	58,831	A. 8447	8.9	16.0022	18.2133	59,353	A. 8575	8.3	24.7758	10.9467
58,322	A. 8327	8.9	20.9180	13.4825	58,869	A. 8448	9.2	16.2674	22.1642	59,389	A. 8577	9.3	25.1126	15.1597
58,346	A. 8330	9.0	22.3464	16.2747	58,767	W. 7421	8.1	20.8712	8.6824	R.A. 20^h 0^m				
58,282	A. 8331	9.1	22.3842	10.3192	58,870	A. 8460	8.8	21.4607	22.1971	59,519	W. 7522	8.2	0.9960	2.7420
58,337	A. 8333	9.0	22.8395	15.4291	58,768	W. 7423	9.1	21.8430	9.1078	59,606	A. 8575	8.3	1.9260	10.9431
58,438	A. 8334	8.8	23.2084	25.7567	58,834	A. 8462	8.8	22.1940	17.6997	59,647	A. 8577	9.3	2.3082	15.1520
58,348	A. 8338	9.1	24.1960	15.8744	58,773	A. 8463	9.1	22.9378	9.7702	59,648	A. 8579	9.0	3.7824	15.2103
58,349	A. 8339	9.0	24.2451	16.4618	58,732	W. 7426	9.0	23.0749	4.8679	59,687	A. 8581	9.4	4.5030	18.9637
58,286	A. 8342	8.8	25.2060	10.2444	R.A. 19^h 44^m					59,677	A. 8582	8.9	4.6209	18.4239
58,366	A. 8344	8.2	25.3354	18.4327	59,103	A. 8467	9.0	3.0808	16.2659	59,688	A. 8583	9.4	4.6452	19.0499
R.A. 19^h 28^m					59,114	A. 8471	8.8	3.4603	17.7580	59,713	A. 8585	7.3	4.8573	22.8901
58,575	A. 8338	9.1	1.3993	15.8766	59,002	W. 7434	9.2	4.3010	6.1086	59,578	W. 7528	8.0	5.4657	8.5323
58,576	A. 8339	9.0	1.4548	16.4634	58,992	W. 7439	7.2	5.5630	4.8882	59,689	A. 8586	8.1	5.7575	19.2719
58,530	A. 8342	8.8	2.3486	10.2361	59,191	A. 8478	8.0	5.9149	24.8781	59,502	W. 7531	8.8	7.1626	1.3412
58,595	A. 8344	8.2	2.5662	18.4223	58,993	W. 7441	8.5	7.0680	4.7849	59,744	A. 8588	8.9	7.5649	25.8356
58,634	A. 8347	9.0	3.1254	22.3460	59,108	A. 8482	8.9	7.5632	16.1708	59,600	A. 8593	9.2	9.1031	9.9302
58,596	A. 8348	8.8	3.7580	18.2186	59,152	A. 8483	9.1	7.5970	20.8109	59,634	A. 8598	9.1	10.7806	13.8041
58,605	A. 8349	8.0	4.0984	19.3988	59,049	A. 8486	8.4	7.9920	9.7185	59,745	A. 8599	9.0	10.8814	25.6547
58,497	W. 7312	8.3	4.4696	5.9292	59,183	A. 8487	8.5	8.1229	23.6610	59,734	A. 8600	9.0	11.3923	24.8999
58,452	W. 7314	8.8	4.8164	0.5580	59,205	A. 8490	9.0	8.9778	25.6357	59,659	A. 8601	9.0	11.7542	16.3517
58,498	W. 7315	8.4	4.8711	6.3344	59,040	W. 7453	9.2	11.7128	9.0957	59,629	A. 8602	8.8	12.6405	12.8090
58,550	A. 8358	9.0	6.2637	11.6009	59,086	A. 8500	9.1	14.0502	14.3576	59,512	W. 7551	9.0	13.2940	1.7009
58,513	W. 7320	9.2	6.9053	7.4981	59,094	A. 8502	8.7	14.2986	15.4511	59,737	A. 8605	8.3	13.7585	24.8736
58,499	W. 7321	8.4	7.0660	6.2981	59,144	A. 8507	9.2	17.4381	19.8191	59,701	A. 8610	8.3	15.0744	20.1270
58,649	A. 8360	8.8	7.6633	23.4112	59,015	W. 7464	8.8	18.7434	7.2760	59,638	A. 8613	9.1	16.5200	14.3719
58,454	W. 7323	8.6	7.9333	1.2847	59,209	A. 8511	9.0	19.1087	25.4817	59,573	W. 7557	8.6	16.8316	6.7902
58,482	W. 7334	9.0	11.9428	4.2388	59,016	W. 7466	9.3	19.6009	7.5549	59,532	W. 7560	9.1	18.0215	3.9953
58,652	A. 8367	8.4	12.3066	22.9411	59,042	W. 7467	9.4	19.7169	8.8376	59,653	A. 8620	8.8	18.7508	15.3997
58,465	W. 7337	9.1	12.4922	1.4260	59,017	W. 7468	9.0	19.9866	6.9626	59,533	W. 7562	9.1	18.7778	4.4366
58,670	A. 8368	8.8	12.7826	25.9052	59,210	A. 8514	9.0	20.2327	25.4062	59,696	A. 8622	8.8	19.9027	19.4851
58,552	A. 8373	9.3	13.3212	11.6443	58,974	W. 7469	8.6	20.7777	2.7172	59,661	A. 8626	8.6	21.7064	16.8246
58,475	W. 7344	9.2	14.0735	3.0236	59,158	A. 8518	8.8	20.9279	20.2113	59,704	A. 8631	8.4	24.2107	20.6984
58,510	W. 7345	8.6	14.0995	7.4055	58,986	W. 7473	9.0	22.0128	4.4705	59,564	W. 7571	9.1	24.9460	5.8345
58,560	A. 8377	9.1	14.3098	14.1887	59,098	A. 8525	8.9	23.3436	15.0285	R.A. 20^h 8^m				
58,586	A. 8379	9.0	15.2158	17.6762	59,124	A. 8529	9.1	25.1273	17.4836	59,975	A. 8631	8.4	1.4661	20.7002
58,484	W. 7351	9.2	15.4326	4.0637	R.A. 19^h 52^m					59,854	W. 7571	9.1	2.0410	5.8296
58,587	A. 8381	8.9	15.6368	16.8175	59,405	A. 8529	9.1	2.3479	17.4754	59,834	A. 7573	5.6	5.6847	4.1773
58,663	A. 8382	8.5	16.1607	24.8170	59,327	W. 7479	8.8	2.6878	9.1007	59,928	A. 8644	9.0	5.9856	14.4157
58,672	A. 8394	6.2	20.3908	25.8991	59,285	W. 7484	9.0	4.9481	4.7608	59,823	W. 7578	9.4	8.6430	2.9212
58,590	A. 8397	9.1	21.3587	16.8662	59,478	A. 8535	8.7	5.1142	25.3677	59,961	A. 8649	7.6	8.7499	18.3088
58,521	W. 7358	8.8	21.3832	7.6831	59,259	W. 7488	9.4	5.8114	1.3999	59,846	W. 7579	9.6	8.9427	4.9795
58,673	A. 8399	8.3	21.4965	25.0855	59,348	W. 7489	9.0	6.9260	10.8840	59,977	A. 8650	8.7	9.0253	20.4505
58,602	A. 8403	6.8	22.2594	18.4582	59,387	A. 8544	9.0	9.9047	15.2416	60,025	A. 8653	8.7	10.1935	25.1899
58,666	A. 8405	9.0	22.6543	24.5205										
58,503	W. 7363	8.7	23.1590	5.7373										

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.
R.A. 20^h 8^m (continued)					R.A. 20^h 24^m (continued)					R.A. 20^h 40^m (continued)				
59,885	W. 7586	9.3	11.2512	8.5792	60,618	A. 8762	8.6	3.5196	21.3445	60,951	W. 7795	8.9	3.1626	6.2484
59,824	W. 7587	8.2	11.7263	3.1570	60,472	A. 8763	7.7	3.9550	9.4667	61,091	A. 8875	8.9	3.2227	24.4326
59,836	W. 7588	9.4	11.9673	3.4153	60,540	A. 8767	8.9	5.3392	14.4033	61,052	A. 8876	7.5	4.3907	18.6291
59,990	A. 8659	8.9	12.5064	21.0425	60,433	W. 7695	8.4	5.6762	6.1421	60,954	W. 7802	9.5	6.2721	5.5385
59,837	W. 7592	9.4	12.6333	4.1928	60,648	A. 8770	8.6	5.8917	23.3293	61,063	A. 8886	8.7	6.7745	20.0484
59,991	A. 8660	8.5	12.8399	21.4991	60,604	A. 8771	5.8	6.1708	19.4899	61,097	A. 8887	9.0	6.9774	24.8523
59,922	A. 8663	7.8	13.7334	12.7321	60,420	W. 7700	9.2	6.5277	5.7583	61,014	A. 8892	9.1	7.9416	13.9440
59,806	W. 7595	8.6	13.8313	0.6298	60,579	A. 8772	9.0	7.7088	17.6136	60,916	W. 7806	9.2	7.9514	2.4676
59,964	A. 8667	7.7	15.0634	17.7684	60,633	A. 8775	9.0	8.8808	21.9546	61,074	A. 8905	8.8	13.8541	20.9883
59,817	W. 7604	8.6	16.4451	1.6482	60,569	A. 8778	9.1	9.2969	16.7477	60,979	W. 7818	9.0	14.7354	8.7056
59,826	W. 7607	8.0	17.3820	2.8556	60,459	W. 7704	8.4	9.3171	8.9582	60,933	W. 7819	9.3	15.2149	3.9589
59,978	A. 8674	8.9	17.7448	20.0354	60,542	A. 8781	5.1	10.5972	14.7327	60,913	W. 7820	8.8	15.5509	1.7596
59,829	W. 7615	9.0	20.6561	3.0388	60,481	A. 8783	7.9	10.9768	10.1876	60,967	W. 7821	7.9	15.6587	7.3135
59,956	A. 8681	9.0	22.0365	17.1294	60,557	A. 8784	7.3	11.0051	15.4432	61,045	A. 8916	9.1	16.3641	17.3435
60,003	A. 8683	7.2	22.2510	21.8954	60,482	A. 8786	9.1	12.7038	9.8553	60,973	W. 7822	9.2	17.2169	8.0425
59,841	W. 7622	8.8	22.8801	4.4485	60,661	A. 8788	6.9	13.4092	24.0086	61,101	A. 8919	8.6	17.7926	24.8460
59,973	A. 8690	8.8	25.0339	19.2897	60,662	A. 8789	6.7	13.4731	23.9710	60,923	W. 7832	8.0	20.4246	2.2716
59,982	A. 8691	8.0	25.1446	19.9183	60,426	W. 7712	9.4	14.4613	5.3872	61,067	A. 8923	7.7	20.7786	19.8300
R.A. 20^h 16^m					60,483	A. 8793	9.2	15.0928	9.5877	61,068	A. 8924	7.3	20.8259	19.8529
60,232	A. 8690	8.8	2.2741	19.2825	60,438	W. 7720	8.3	17.7528	6.7013	60,946	W. 7838	9.2	22.8363	4.8487
60,241	A. 8691	8.0	2.3915	19.9098	60,586	A. 8801	8.5	17.8437	18.0478	61,070	A. 8930	8.7	23.3801	20.0890
60,164	A. 8693	9.1	3.5806	11.5251	60,599	A. 8802	9.1	19.0628	18.7461	61,049	A. 8931	6.7	23.4526	17.8849
60,195	A. 8695	8.8	4.4805	15.0306	60,412	W. 7724	8.9	20.4013	5.1238	R.A. 20^h 48^m				
60,243	A. 8696	7.8	4.5088	20.6429	60,358	W. 7728	7.8	21.2178	0.3833	61,272	A. 8931	6.7	0.6776	17.8950
60,155	A. 8706	8.0	7.3166	10.6222	60,643	A. 8813	9.1	24.1216	21.8713	61,152	W. 7845	9.4	2.8919	0.0749
60,157	A. 8710	8.3	8.4662	10.7421	R.A. 20^h 32^m					61,285	A. 8937	9.3	4.8752	20.2748
60,082	W. 7645	9.4	10.2633	4.8700	60,835	A. 8813	9.1	1.3896	21.8740	61,205	W. 7850	8.8	5.3120	8.9817
60,220	A. 8716	7.2	10.5974	18.6499	60,760	W. 7737	9.2	3.1335	8.3106	61,252	A. 8939	8.7	5.4445	14.6063
60,266	A. 8718	9.0	10.7614	22.5298	60,724	W. 7745	9.0	4.1500	4.1050	61,229	A. 8944	7.8	6.8794	11.5572
60,066	W. 7648	8.3	10.7986	2.7392	60,826	A. 8820	8.9	6.0001	20.3633	61,236	A. 8952	8.8	11.0020	12.2072
60,245	A. 8719	7.3	10.9631	20.6732	60,799	A. 8823	8.6	6.4899	14.5822	61,184	W. 7861	8.9	11.0029	5.5802
60,084	W. 7650	9.3	10.9914	4.9488	60,792	A. 8824	9.2	6.8933	13.8795	61,216	A. 8955	9.3	11.9796	9.3130
60,053	W. 7651	8.8	11.0251	1.1406	60,761	W. 7753	9.1	7.2454	7.8761	61,298	A. 8958	8.8	13.0791	22.1225
60,287	A. 8720	8.8	11.1314	25.6123	60,811	A. 8827	8.8	7.9216	16.7189	61,179	W. 7866	8.8	13.1834	4.1328
60,104	W. 7655	9.0	11.5736	5.5005	60,743	W. 7755	8.6	8.9544	5.3717	61,208	W. 7867	9.3	13.3403	8.3785
60,278	A. 8721	8.8	11.6992	23.4409	60,818	A. 8833	9.2	10.5745	17.7465	61,280	A. 8965	8.8	15.9210	19.3506
60,114	W. 7658	9.0	12.1317	7.3004	60,744	W. 7759	9.1	10.7025	5.3152	61,270	A. 8968	6.0	16.2688	16.6296
60,059	W. 7661	8.9	14.4836	2.1622	60,793	A. 8835	9.1	11.9260	14.3173	61,155	W. 7872	9.2	17.8109	0.2062
60,288	A. 8727	8.9	14.7508	25.0754	60,726	W. 7761	9.2	12.0600	3.6762	61,164	W. 7873	9.2	17.9923	1.5885
60,199	A. 8729	9.2	15.1163	14.7257	60,800	A. 8837	9.0	12.1661	14.5252	61,318	A. 8974	8.2	18.8484	24.5579
60,256	A. 8733	7.7	16.9762	20.9450	60,756	W. 7764	7.5	13.4273	6.6484	61,196	W. 7876	7.4	19.1759	6.9353
60,237	A. 8736	8.7	18.2145	19.4398	60,767	W. 7766	9.2	13.8166	8.9175	61,210	W. 7879	7.8	20.2188	8.5176
60,289	A. 8739	9.2	19.1801	25.6279	60,819	A. 8847	9.1	15.1815	17.8242	61,233	A. 8980	8.9	22.4375	11.8299
60,127	W. 7671	9.4	19.2810	8.1800	60,808	A. 8849	9.1	15.8688	15.5409	61,265	A. 8983	9.1	23.6065	15.7656
60,258	A. 8742	9.0	20.0457	21.2469	60,746	W. 7768	8.7	16.0034	5.9778	61,257	A. 8986	8.7	24.0909	14.4416
60,092	W. 7675	8.5	21.1407	5.0161	60,824	A. 8856	5.6	19.7083	18.9018	R.A. 20^h 56^m				
60,168	A. 8748	7.7	21.7752	11.8018	60,852	A. 8860	9.0	21.1178	23.8376	61,488	A. 8983	8.7	0.8088	15.7743
60,201	A. 8750	8.7	22.3137	15.0730	60,801	A. 8862	8.6	22.3866	14.8237	61,471	A. 8986	8.7	1.2788	14.4450
60,291	A. 8752	9.1	22.4256	25.3195	60,788	A. 8864	8.9	23.4190	12.4726	61,356	W. 7891	8.8	3.2537	1.9743
60,141	W. 7680	9.2	23.6259	8.7778	60,715	W. 7789	9.1	23.4371	1.6111	61,396	W. 7892	8.6	3.6466	5.8510
60,192	A. 8757	9.2	24.1765	13.7100	60,774	A. 8865	7.4	23.4425	9.8231	61,490	A. 8998	8.8	5.6903	15.9982
60,193	A. 8758	9.0	24.2378	14.1703	60,816	A. 8867	8.9	23.7606	17.0347	61,377	W. 7900	8.2	6.8095	4.2162
60,275	A. 8760	8.0	24.8310	22.7333	60,789	A. 8869	8.9	23.8333	12.8536	61,438	A. 9003	8.8	7.3212	11.2719
R.A. 20^h 24^m					60,810	A. 8871	8.7	25.2358	15.8782	61,420	A. 9008	8.6	8.3274	9.1393
60,455	W. 7680	9.2	0.7527	8.7870	R.A. 20^h 40^m					61,462	W. 7904	9.0	8.4723	13.1669
60,523	A. 8757	9.2	1.3565	13.7124	61,036	A. 8867	8.9	0.9765	17.0416	61,475	A. 9010	8.9	10.0283	13.5938
60,525	A. 8758	9.0	1.4227	14.1721	61,001	A. 8869	8.9	1.0041	12.8599	61,453	A. 9012	6.2	10.8192	12.0531
60,647	A. 8760	8.0	2.1083	22.7280	61,029	A. 8871	8.7	2.4391	15.8690					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.	Hyd.	Wash. or Alg.		ξ'.	η'.
R.A. 20^h 56^m (continued)					R.A. 21^h 12^m (continued)					R.A. 21^h 36^m (continued)				
61,379	W. 7916	9.0	12.7307	3.9601	62,018	W. 8034	9.0	18.8623	3.3907	62,783	A. 9271	9.0	12.0190	13.0375
61,521	A. 9015	8.9	13.6822	19.5763	62,100	A. 9143	9.1	20.5425	15.5809	62,754	A. 9276	7.9	14.1958	9.1411
61,425	A. 9021	8.3	15.1482	9.4498	62,031	W. 8041	9.0	20.8431	6.2111	62,704	W. 8156	9.3	15.2106	4.9027
61,502	A. 9022	8.9	15.3743	17.2944	62,111	A. 9153	9.2	24.3958	17.0393	62,672	W. 8158	9.3	16.0662	1.1659
61,465	A. 9023	9.0	15.3996	12.9433	R.A. 21^h 20^m					62,877	A. 9280	8.8	16.7921	22.1150
61,532	A. 9029	8.9	17.0526	20.3804	62,361	A. 9153	9.2	1.6118	17.0393	62,773	A. 9284	8.8	18.7472	11.1347
61,444	A. 9032	7.6	17.8856	11.3680	62,234	W. 8049	5.0	3.4853	4.1467	62,913	A. 9286	8.7	19.5803	25.5700
61,408	W. 7931	9.3	19.2995	7.8823	62,201	W. 8052	9.0	4.8687	0.6027	62,865	A. 9288	8.9	19.9879	20.6849
61,436	A. 9035	9.0	19.4925	10.2376	62,405	A. 9162	9.0	6.8174	21.5826	62,800	A. 9292	9.4	21.4439	14.4393
61,524	A. 9036	9.1	19.5573	19.4160	62,434	A. 9176	7.9	13.3106	25.2152	62,662	W. 8169	8.9	22.1890	0.8385
61,525	A. 9037	7.0	19.7869	19.0974	62,368	A. 9179	9.0	14.7208	17.1978	62,915	A. 9296	9.1	23.8051	25.4770
61,533	A. 9038	8.9	20.0651	20.6865	62,399	A. 9180	8.7	14.9546	19.9732	62,833	A. 9297	8.8	25.2731	18.3534
61,559	A. 9039	8.6	20.2871	24.0512	62,358	A. 9183	8.9	15.7433	16.7322	R.A. 21^h 44^m				
61,458	A. 9041	8.6	20.8202	12.1607	62,291	A. 9184	8.6	16.3901	9.4206	63,278	A. 9296	9.1	1.1120	25.4831
61,411	W. 7937	7.9	22.2735	7.7468	62,378	A. 9185	9.2	16.9162	18.8229	63,160	A. 9297	8.8	2.5032	18.3436
61,399	W. 7941	9.2	24.3766	6.1758	62,412	A. 9186	8.9	16.9905	22.9013	63,149	A. 9298	7.9	4.2503	17.5973
61,428	W. 7944	5.0	25.3709	8.5984	62,293	A. 9195	8.9	21.0003	9.3269	63,201	A. 9299	9.0	4.8511	20.4153
R.A. 21^h 4^m					62,415	A. 9203	9.1	25.0682	22.4849	62,953	W. 8180	9.4	5.5188	0.9988
61,662	W. 7941	9.2	1.4754	6.1768	R.A. 21^h 28^m					63,249	A. 9300	8.6	5.3914	23.3314
61,701	W. 7944	5.0	2.4957	8.5884	62,612	A. 9203	9.1	2.3428	22.4770	62,983	W. 8185	7.8	7.2020	3.6991
61,636	W. 7945	9.2	3.6386	3.8272	62,462	W. 8088	9.2	3.1829	2.7911	63,057	A. 9305	8.2	7.5486	10.0982
..	W. 7946	9.4	4.6619	0.3217	62,503	W. 8090	9.0	4.1703	8.1917	63,213	A. 9308	7.5	7.9062	21.1224
61,822	A. 9057	8.8	7.1786	17.5593	62,597	A. 9205	9.0	6.2710	19.8446	63,251	A. 9310	8.9	9.4498	22.9745
61,868	A. 9058	9.6	7.4378	20.4498	62,514	A. 9206	8.5	6.4149	9.3977	63,253	A. 9317	7.5	12.4033	23.2221
61,735	A. 9059	8.2	7.6573	11.2919	62,604	A. 9212	9.1	8.8580	21.1799	63,282	A. 9318	8.9	13.0293	25.9262
61,628	W. 7960	8.2	9.0661	2.5526	62,634	A. 9217	9.0	10.8144	25.2491	63,059	A. 9323	9.2	14.9740	10.3422
61,708	A. 9069	9.3	10.4395	9.2325	62,635	A. 9221	8.5	11.9561	25.1215	63,221	A. 9324	9.2	15.0059	20.9100
61,944	A. 9071	9.1	10.9998	25.3326	62,571	A. 9226	9.0	13.8957	16.7355	63,000	W. 8194	6.6	15.0551	4.7351
61,610	W. 7968	7.4	12.5142	1.2506	62,518	A. 9228	8.9	14.6419	9.4256	63,175	A. 9326	9.0	16.2049	18.7564
61,899	A. 9076	9.2	12.6446	22.9024	62,471	W. 8113	9.0	15.6504	3.2846	62,988	W. 8199	9.0	21.5680	3.5846
61,711	A. 9077	9.2	13.9814	8.9882	62,566	A. 9230	9.0	15.7925	16.0958	63,029	W. 8202	8.8	22.1370	7.4500
61,918	A. 9078	8.8	15.0797	23.3816	62,472	W. 8115	9.1	16.2777	3.2083	63,256	A. 9338	9.1	22.2262	23.1348
61,654	W. 7975	9.0	15.2402	5.3694	62,453	W. 8116	8.6	16.2870	0.6130	63,257	A. 9339	9.2	22.2521	23.2547
61,881	A. 9079	7.9	15.5761	21.8505	62,473	W. 8118	9.0	16.6453	3.1133	63,105	A. 9343	9.1	24.3585	13.2878
61,740	A. 9080	8.8	16.2139	11.5805	62,466	W. 8123	8.8	19.3742	2.2188	62,990	W. 8206	8.9	25.0269	3.6863
61,847	A. 9082	9.0	18.3111	18.3510	62,623	A. 9243	8.3	20.9564	23.0876	62,960	W. 8207	9.0	25.1264	0.8871
61,874	A. 9086	9.0	19.9121	20.3847	62,599	A. 9244	9.2	21.2998	20.1361	R.A. 21^h 52^m				
61,671	W. 7988	9.2	21.5670	6.0809	62,468	W. 8126	9.0	21.3581	2.9048	63,455	A. 9343	9.1	1.5340	13.2884
61,907	A. 9088	9.1	21.7762	22.8721	62,502	W. 8128	8.7	21.8765	7.5853	63,373	W. 8206	8.9	2.0987	3.6804
61,698	W. 7991	8.9	22.5276	8.0905	62,629	A. 9252	8.0	23.7202	23.6723	63,351	W. 8207	9.0	2.1681	0.8801
61,761	A. 9094	8.2	24.9480	12.7583	R.A. 21^h 36^m					63,364	W. 8211	9.5	3.0858	2.2726
R.A. 21^h 12^m					62,085	A. 9094	8.2	2.1176	12.7527	63,414	A. 9347	8.6	3.1464	8.6171
62,085	A. 9094	8.2	2.1176	12.7527	62,086	A. 9097	8.5	2.6574	13.3013	63,366	W. 8213	9.4	3.4301	2.3993
62,086	A. 9097	8.5	2.6574	13.3013	62,053	A. 9099	9.2	3.1664	9.2294	63,468	A. 9348	8.7	3.5857	13.6226
62,053	A. 9099	9.2	3.1664	9.2294	62,106	A. 9100	8.5	4.1949	16.8430	63,544	A. 9350	8.9	6.8917	21.5666
62,054	W. 8002	9.1	4.9074	8.6037	62,087	A. 9105	8.9	5.5158	12.8699	63,506	A. 9361	7.4	10.8912	17.4644
62,062	A. 9106	6.3	5.9023	10.1181	62,124	A. 9108	8.8	5.9694	19.2304	63,472	A. 9367	9.0	14.7133	14.1644
62,124	A. 9108	8.8	5.9694	19.2304	62,057	A. 9116	9.2	11.2048	8.9920	63,578	A. 9371	8.9	15.6100	25.4352
62,057	A. 9116	9.2	11.2048	8.9920	62,127	A. 9123	9.1	12.6856	18.9515	63,387	W. 8239	9.4	18.2413	4.9286
62,127	A. 9123	9.1	12.6856	18.9515	62,134	A. 9125	9.1	13.3588	20.0899	63,440	A. 9377	8.8	18.5443	10.4581
62,134	A. 9125	9.1	13.3588	20.0899	62,117	A. 9128	6.6	13.9921	17.8506	63,518	A. 9378	8.1	18.5820	18.6940
62,080	A. 9131	8.2	14.9048	11.5789	62,081	A. 9133	9.2	15.7583	12.4301	63,538	A. 9379	9.4	18.9228	21.1537
62,081	A. 9133	9.2	15.7583	12.4301	62,895	A. 9252	8.0	1.0077	23.6795	63,451	A. 9381	8.2	21.0919	11.4006
62,749	A. 9256	7.7	2.7023	8.9281	62,871	A. 9257	8.9	2.8816	22.4489	63,463	A. 9386	7.8	23.9278	12.9875
62,697	W. 8139	8.4	4.4998	4.7700	62,898	A. 9261	9.0	6.9388	23.6072	63,453	A. 9387	9.0	24.4889	11.9564
62,884	A. 9262	9.0	7.1153	23.4324	62,887	A. 9267	8.8	9.0890	23.6094	63,454	A. 9389	8.9	25.2434	12.2670
62,850	A. 9264	9.2	7.2558	19.7420	62,797	A. 9269	9.3	10.1990	13.6375					
62,682	W. 8145	3.6	8.8454	2.3716	62,691	W. 8147	9.1	10.3816	3.6512					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 22^h 0^m					R.A. 22^h 24^m					R.A. 22^h 40^m (continued)				
63,711	A. 9386	7.8	1.1000	12.9928	64,518	A. 9506	8.8	3.4990	23.3856	64,769	W. 8450	9.0	12.8241	2.3408
63,701	A. 9387	9.0	1.6500	11.9556	64,438	A. 9507	8.9	3.6796	13.3352	64,770	W. 8456	8.9	13.6366	2.1855
63,702	A. 9389	8.9	2.4073	12.2581	64,424	A. 9509	9.1	4.0507	11.2511	64,941	A. 9608	9.2	14.9470	20.5515
63,628	W. 8254	8.9	2.5958	4.1213	64,539	A. 9508	8.7	4.0823	25.8877	64,963	A. 9610	7.8	16.2523	22.7649
63,756	A. 9391	6.6	3.5865	17.6244	64,485	A. 9510	8.0	4.0981	19.2151	64,807	W. 8461	9.1	16.5108	7.8527
63,648	W. 8258	8.3	4.3169	6.3811	64,439	A. 9511	8.9	4.5689	13.3678	64,757	W. 8462	8.5	17.7601	0.2515
..	W. 8259	8.3	4.3340	6.3724	64,462	A. 9512	8.9	4.7677	15.6905	64,876	A. 9616	6.8	18.8570	13.9441
63,705	A. 9392	8.7	5.7980	11.9411	64,372	W. 8376	7.7	4.7972	4.0120	64,877	A. 9617	8.6	19.0234	14.2736
..	W. 8262	Var.	6.8995	2.3210	64,373	W. 8377	7.6	4.8193	4.0287	64,930	A. 9620	8.3	19.3749	20.3243
63,686	A. 9395	9.2	7.9000	10.3010	64,361	W. 8378	9.2	5.9078	2.6324	64,809	W. 8465	9.2	19.4320	8.0639
63,743	A. 9397	8.3	9.2933	16.5707	64,463	A. 9514	9.2	6.0234	16.4904	64,943	A. 9621	8.9	20.2167	21.1069
63,717	A. 9400	9.4	10.9386	13.4783	64,415	A. 9517	7.7	6.2966	10.2492	64,764	W. 8467	9.0	20.6183	1.9775
63,736	A. 9403	9.1	12.3815	15.1883	64,457	A. 9520	9.1	7.3075	15.1851	64,846	A. 9625	8.6	22.2600	10.4200
63,789	A. 9407	9.2	14.1920	20.0256	64,416	A. 9522	8.4	8.4835	10.3740	64,812	W. 8470	8.0	23.1730	7.3075
63,626	W. 8276	9.2	16.2317	2.6616	64,505	A. 9523	8.8	9.1481	20.7496	64,975	A. 9630	8.9	24.3757	24.1842
63,771	A. 9413	8.4	19.8244	18.0441	64,377	W. 8388	8.7	13.4802	4.8357	R.A. 22^h 48^m				
63,656	W. 8278	9.4	19.9174	6.3979	64,378	W. 8389	9.0	13.9175	4.8188	65,127	A. 9630	8.9	1.6687	24.1840
63,645	W. 8281	9.3	20.1993	5.0015	64,353	W. 8391	8.5	14.6845	0.7423	65,106	A. 9633	8.9	3.5336	19.8081
63,627	W. 8282	9.3	20.6619	3.1505	64,529	A. 9530	9.0	14.8624	24.0492	65,087	A. 9635	8.9	5.9821	17.2106
63,761	A. 9414	8.1	20.8716	16.8753	64,466	A. 9531	8.7	16.5235	16.2683	65,016	W. 8484	9.2	9.3429	3.4774
63,617	W. 8283	8.2	21.5706	1.4020	64,537	A. 9533	9.2	17.9092	25.3111	65,013	W. 8486	8.3	10.4953	3.2503
63,646	W. 8284	9.2	21.7535	4.5791	64,366	W. 8402	8.9	19.6811	2.5012	65,040	A. 9645	8.8	12.7737	9.3603
63,618	W. 8285	9.1	21.8440	2.2271	64,460	A. 9538	9.0	20.8195	14.9309	65,095	A. 9646	9.0	12.8857	17.7488
63,763	A. 9417	9.3	22.9125	17.6921	64,387	W. 8404	9.2	21.3364	5.4930	65,056	A. 9648	8.9	14.4891	10.7143
63,846	A. 9418	6.0	22.9315	25.1352	64,445	A. 9539	7.0	23.4172	13.2094	65,109	A. 9650	8.3	14.8090	20.0924
63,832	A. 9419	8.6	23.2669	24.7185	64,435	A. 9541	8.6	23.5791	12.4086	65,036	W. 8496	9.0	15.7248	7.7687
63,834	A. 9421	8.7	24.3163	24.3250	64,467	A. 9543	8.0	24.3167	16.4706	65,052	A. 9658	9.0	18.4823	10.3257
R.A. 22^h 8^m					R.A. 22^h 32^m					65,131	A. 9662	9.1	20.9276	23.8272
64,055	A. 9421	8.7	1.6109	24.3254	64,624	A. 9541	8.6	0.7451	12.4177	65,034	W. 8515	9.0	24.8653	6.9503
64,021	A. 9424	9.1	2.9037	17.7737	64,642	A. 9543	8.0	1.5265	16.4714	65,007	W. 8516	8.6	25.2071	1.8481
64,029	A. 9425	8.2	3.3960	18.8373	64,552	W. 8409	9.0	4.6875	0.6274	R.A. 22^h 56^m				
64,030	A. 9435	9.1	8.2340	18.5926	64,628	A. 9547	8.8	4.7689	13.2927	65,243	W. 8515	9.0	1.9724	6.9463
64,040	A. 9436	9.2	9.6920	20.4620	64,691	A. 9550	8.8	5.3075	20.8216	65,210	W. 8516	8.6	2.2590	1.8403
64,032	A. 9437	8.7	10.4217	19.2591	64,711	A. 9552	8.6	6.6321	24.2101	65,253	A. 9669	9.3	2.6106	8.6849
63,908	W. 8304	8.8	12.0810	2.3920	64,608	A. 9553	9.0	7.4924	10.3001	65,402	A. 9672	8.6	3.4263	23.8274
63,968	A. 9443	9.3	12.8952	9.7047	64,655	A. 9554	8.3	7.9279	16.9369	65,327	A. 9675	8.2	3.9823	15.7555
64,060	A. 9444	9.0	13.6811	24.4025	64,639	A. 9555	6.9	8.1134	14.6600	65,403	A. 9676	8.6	4.1155	24.1309
63,909	W. 8310	9.0	15.7912	2.2512	64,629	A. 9556	6.5	8.5222	12.7227	65,225	W. 8521	9.4	5.8518	3.4640
64,015	A. 9451	9.0	16.1922	15.8987	64,630	A. 9558	9.3	9.5078	13.0619	65,211	W. 8522	8.4	5.9539	1.9746
63,960	A. 9455	9.2	17.3929	8.6920	64,572	W. 8414	9.3	10.1320	3.0474	65,235	W. 8523	9.4	6.6524	6.1427
64,045	A. 9460	9.1	19.4445	20.6608	64,556	W. 8415	9.4	10.2887	0.4052	65,254	A. 9680	8.5	6.9674	9.3642
63,993	A. 9464	9.2	20.7898	13.1727	64,694	A. 9561	8.8	10.5829	20.8868	65,203	W. 8528	8.2	8.6100	0.1521
63,970	W. 8320	8.6	21.1094	9.4517	64,702	A. 9562	7.7	10.7788	22.4690	65,238	W. 8532	8.0	11.7290	6.0088
63,944	W. 8324	8.9	23.0791	6.8109	64,588	W. 8416	8.6	11.1269	4.8788	65,397	A. 9687	8.8	13.4051	23.1087
64,046	A. 9468	8.4	24.6300	20.9728	64,589	W. 8423	9.2	13.3852	5.1879	65,387	A. 9688	9.2	14.1591	22.0115
R.A. 22^h 16^m					64,558	W. 8428	8.8	16.2598	0.9046	65,214	W. 8537	9.3	14.7897	1.9314
64,265	A. 9468	8.4	1.884	20.9700	64,659	A. 9574	8.7	17.9485	16.8242	65,420	A. 9691	8.9	15.2624	25.0572
64,246	A. 9471	8.9	3.4665	18.8016	64,681	A. 9578	9.1	20.3594	18.7747	65,429	A. 9695	7.0	16.6992	25.9577
64,125	W. 8338	8.2	7.6958	3.4434	64,663	A. 9580	8.9	20.6264	16.9581	65,283	A. 9698	9.0	17.6768	11.3154
64,195	A. 9481	9.1	8.7812	12.5979	64,592	W. 8436	8.0	22.4051	4.5269	65,409	A. 9699	9.1	18.1200	24.5993
64,106	W. 8344	9.3	10.2859	1.9757	R.A. 22^h 40^m					65,263	A. 9706	6.1	24.2206	8.4428
64,300	A. 9485	8.7	12.8577	25.1222	64,985	A. 9584	8.7	2.9849	26.0398	65,242	W. 8552	7.8	24.6462	6.2871
64,120	W. 8352	9.2	15.6489	3.2746	64,967	A. 9586	8.6	3.4995	24.5339	R.A. 23^h 4^m				
64,172	A. 9496	9.4	20.2837	10.1576	64,849	A. 9590	8.9	5.6983	12.0035	65,493	A. 9706	6.1	1.3437	8.4450
64,208	A. 9498	7.4	21.9582	14.2128	64,902	A. 9592	8.7	6.9367	17.4390	65,480	W. 8552	7.8	1.7461	6.2851
64,156	W. 8369	9.0	22.9139	8.0615	64,882	A. 9595	8.8	8.5412	14.4964					
					64,870	A. 9596	8.9	8.7232	13.5536					
					64,958	A. 9597	8.6	8.9802	22.6716					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.	Hyd.	Wash. or Alg.		ξ.	η.
R.A. 23^h 4^m (continued)					R.A. 23^h 20^m (continued)					R.A. 23^h 36^m (continued)				
65,558	A. 9708	9.1	2.6829	23.8455	65,781	A. 9790	9.1	4.6008	8.6975	66,129	W. 8735	9.2	20.7673	5.5423
65,462	W. 8562	9.0	5.5718	3.1744	65,790	A. 9793	9.0	6.0696	9.7231	66,268	A. 9896	6.0	21.5640	23.0036
65,486	A. 9719	8.8	10.0960	8.1762	65,754	W. 8646	9.2	7.2180	2.0250	66,184	A. 9898	9.2	22.9555	18.3399
65,472	W. 8566	8.0	10.2308	4.4823	65,836	A. 9798	7.2	9.0934	17.0657	66,107	W. 8742	9.2	24.4351	1.7922
65,515	A. 9722	8.9	11.8657	12.6806	65,834	A. 9800	8.5	9.7026	15.9903	R.A. 23^h 44^m.				
65,520	A. 9727	8.8	14.6465	13.9956	65,798	A. 9802	8.9	10.6139	11.4233	66,259	W. 8742	9.2	1.4865	1.7922
65,516	A. 9729	8.6	15.3183	12.8779	65,825	A. 9804	8.5	11.0072	15.1322	66,317	A. 9904	8.8	4.1497	9.3099
65,524	A. 9730	8.7	15.7923	15.1951	65,827	A. 9810	8.5	12.5587	15.1194	66,318	A. 9909	8.7	7.1466	8.8672
65,522	A. 9732	8.5	16.9693	14.2578	65,846	A. 9811	8.4	12.8763	20.7406	66,401	A. 9912	8.8	8.3207	18.9848
65,457	W. 8578	9.0	18.6038	1.4473	65,829	A. 9822	9.4	19.0544	14.7300	66,289	W. 8757	7.7	10.1424	4.0423
65,555	A. 9739	9.2	19.7158	23.0979	65,767	W. 8672	9.2	25.5919	4.6015	66,456	A. 9920	9.2	15.1026	24.5718
65,482	W. 8581	8.8	19.9181	6.3399	65,862	A. 9830	8.8	25.8523	25.8458	66,347	A. 9921	8.7	15.9646	12.1864
65,567	A. 9741	9.3	20.6435	25.5548	65,805	A. 9832	9.0	26.2057	10.8815	66,447	A. 9925	7.2	17.5867	23.1762
65,497	A. 9742	9.0	21.8561	8.9405	R.A. 23^h 28^m					66,358	A. 9926	9.1	18.0117	12.6149
65,510	A. 9743	8.6	21.8961	11.7959	65,918	W. 8672	9.2	2.6736	4.5896	66,395	A. 9930	8.8	19.8429	18.0581
65,511	A. 9745	8.5	22.4256	11.4041	66,061	A. 9830	8.8	3.1630	25.8285	66,303	W. 8778	9.4	20.4328	6.2280
65,565	A. 9748	7.9	24.3195	23.9989	65,963	A. 9832	9.0	3.3549	10.8624	66,349	A. 9932	9.1	21.6774	12.5358
65,512	A. 9749	8.6	25.0712	11.9950	66,021	A. 9838	8.8	6.5101	18.9884	66,255	W. 8780	8.8	21.8412	0.4769
R.A. 23^h 12^m					65,957	A. 9843	9.3	10.2006	9.8178	66,417	A. 9933	8.0	22.0071	19.9977
65,714	A. 9748	7.9	1.6105	23.9993	65,926	W. 8688	8.1	11.7708	5.6957	66,439	A. 9934	8.9	22.1397	22.2161
65,653	A. 9749	8.6	2.2327	11.9880	66,029	A. 9846	8.5	11.9844	20.2428	..	W. 8784	8.1	23.1636	0.1909
65,626	W. 8591	9.0	2.7407	6.6293	65,995	A. 9849	9.0	13.1159	15.1587	66,293	W. 8786	9.0	23.5500	4.2819
65,627	W. 8595	7.6	4.4787	6.4559	66,016	A. 9853	8.8	15.6377	18.3402	66,270	W. 8787	9.0	23.9246	1.4577
65,655	A. 9751	8.5	4.5900	12.0773	66,055	A. 9854	9.1	15.9235	24.3283	66,450	A. 9937	8.8	25.3023	22.8805
65,611	W. 8601	9.1	7.3238	3.6825	65,949	A. 9855	9.2	16.4918	8.9835	R.A. 23^h 52^m				
65,602	W. 8604	9.0	7.7760	0.9037	65,943	W. 8698	8.0	16.9703	7.5989	66,525	W. 8786	9.0	0.6284	4.2917
65,618	W. 8607	9.2	8.4323	6.0598	65,927	W. 8699	9.2	17.3919	5.7326	66,509	W. 8787	9.0	0.9725	1.4636
65,675	A. 9763	9.0	10.0474	16.3985	66,000	A. 9858	8.7	17.4847	16.1668	66,661	A. 9937	8.8	2.5811	22.8699
65,651	A. 9767	9.1	11.7900	10.9441	65,928	W. 8701	8.9	19.2233	6.0528	66,656	A. 9941	9.1	3.3229	22.2469
65,697	A. 9770	7.8	12.6410	21.5327	65,913	W. 8702	7.6	19.4928	2.6359	66,669	A. 9942	7.8	3.3848	24.0790
65,719	A. 9775	9.0	16.6289	24.2591	65,971	A. 9866	8.7	23.0148	10.5075	66,619	A. 9948	7.9	8.1018	17.6312
65,691	A. 9778	6.0	19.0844	20.4836	65,989	A. 9868	8.3	23.9109	14.4067	66,628	A. 9949	9.0	8.5128	18.5507
65,612	W. 8628	9.2	20.4190	4.1456	65,951	A. 9869	9.1	24.5405	8.3480	66,638	A. 9953	8.8	10.1213	19.7606
65,606	W. 8629	9.2	20.7157	3.2064	65,932	W. 8713	9.3	25.0659	6.4068	66,580	W. 8797	9.0	11.4159	10.8809
65,667	A. 9786	8.7	23.5343	14.6304	R.A. 23^h 36^m					66,559	A. 9957	8.9	11.6699	8.3803
65,668	A. 9788	8.8	24.7471	13.8007	66,163	A. 9868	8.3	1.0985	14.4120	66,504	W. 8799	9.2	11.9260	0.3659
65,613	W. 8634	8.4	25.1238	3.8711	66,135	A. 9869	9.1	1.6626	8.3470	66,672	A. 9961	9.1	13.4143	24.4181
65,623	W. 8635	8.3	25.2407	6.1171	66,130	W. 8713	9.3	2.1670	6.4009	66,562	W. 8801	9.2	15.2957	7.8907
R.A. 23^h 20^m					66,175	A. 9876	8.6	7.6711	17.1502	66,574	A. 9966	9.2	16.7104	10.4100
65,824	A. 9786	8.7	0.7243	14.6399	66,137	A. 9879	9.4	8.8352	8.1342	66,554	W. 8808	8.7	19.2768	7.0089
65,863	A. 9785	7.8	0.7418	26.1286	66,165	A. 9883	9.1	12.6739	13.9757	66,683	A. 9975	8.7	20.6696	25.7840
65,820	A. 9788	8.8	1.9281	13.7971	66,120	W. 8724	8.9	14.0994	3.7674	66,645	A. 9979	8.3	21.4588	19.8517
65,760	W. 8634	8.4	2.1976	3.8641	66,192	A. 9887	4.8	14.1129	19.9562	66,535	W. 8813	7.9	22.4540	4.0539
65,768	W. 8635	8.3	2.3388	6.1091	66,176	A. 9890	5.3	14.6305	17.4557	66,548	W. 8814	9.2	24.2259	5.6232
65,762	W. 8638	9.4	3.3816	4.0435										

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